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February 1965

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PHOTOGRAPHIC INTERPRETATION REPORT

OAK PART VI
MISSION 4015
24-27 JANUARY 1965



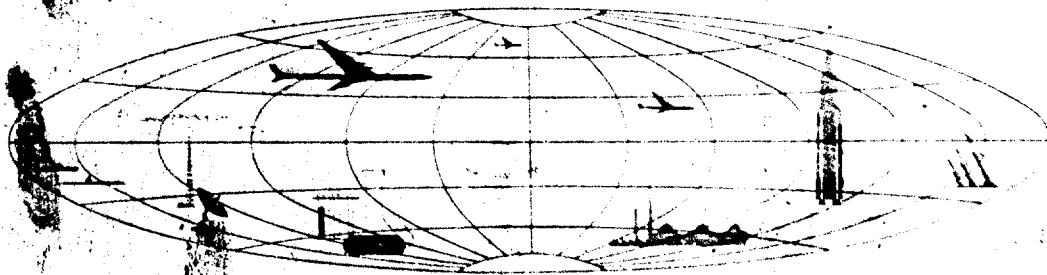
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OAK PART VI
MISSION 4015PREFACE

THIS IS THE SIXTH AND FINAL OAK REPORT ON MISSION 4015 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A INDICATES THE AFT CAMERA. ABSENCE OF THESE LETTERS INDICATES THAT THESE ARE FRAME AND INDEX NUMBERS. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), H (HAZE), CS (CLOUD SHADOW), HC (HEAVY CLOUD COVER), SC (SCATTERED CLOUD COVER), SD (SEMI DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERAL DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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Highlights

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HIGHLIGHTS1. YURYA ICBM LAUNCH AREA K

PROBABLE MISSILE IS VISIBLE ON THE LOOP ROAD AT THE LAUNCH SITE. MEASUREMENT OF THE NOSECONE SECTION AND THE FLARED, SKIRTED ENGINE SECTION REVEALS THE NOSECONE TO BE APPROXIMATELY [REDACTED] AND THE FLARED SECTION TO LENGTH WITH THE LATTER WIDENING TO A MAXIMUM [REDACTED]

2. OLOVYANNAYA ICBM LAUNCH GROUP D

GOOD QUALITY STEREO COVERAGE OF LAUNCH GROUP D SHOWS THAT THERE IS ONLY 1 LAUNCH SILO PER SITE. THE AREA OF ACTIVITY IN SOME OF THE LAUNCH SITES, WHICH WAS PREVIOUSLY REPORTED AS A PROBABLE SECOND SILO, IS IDENTIFIED AS A SMALL BUILDING WITH AN EXCAVATION NEARBY. PROBABLE LAUNCH SITES D14 AND D15 ARE CONFIRMED ON THIS MISSION AND 3 POSSIBLE LAUNCH SITES ARE NEWLY IDENTIFIED. ANALYSIS OF SITE D14 SHOWS THAT IT IS SIMILAR TO THE CENTRALLY LOCATED D7. SITES D11 THROUGH D17 AND THE 3 NEWLY IDENTIFIED POSSIBLE SITES ARE BELIEVED TO CONSTITUTE A SECOND LAUNCH GROUP, THEREFORE, THEY ARE DESIGNATED LAUNCH GROUP E, SITES E1 THROUGH E10. A COMPARISON OF SITES D7 AND D14, AND SITE A1 AT THE TATISHCHEVO ICBM COMPLEX WITH THE NEWLY IDENTIFIED SINGLE SILO (K3) AT COMPLEX K AT THE TYURATAM MISSILE TEST CENTER INDICATES THAT K3 AT THE TTMTc IS POSSIBLY THE PROTOTYPE OF THIS TYPE OF SITE.

3. OMSK SSM STORAGE SITE (MISSILE BONUS)

THIS RAIL-SERVED, SECURED DOUBLE-FENCED AREA IS LOCATED 1.5 NM EAST OF OMSK AIRCRAFT PLANT 166. ONE SUSPECT CANVAS-COVERED ICBM APPROXIMATELY [REDACTED] 2 POSSIBLE SHADDOCK VEHICLES APPROXIMATELY [REDACTED] 4 SUSPECT SHADDOCK-TYPE VEHICLES APPROXIMATELY [REDACTED] 14 SUSPECT MISSILE TRANSPORTERS RANGING FROM 50 TO 60 FT IN LENGTH WITHOUT PRIME MOVERS, AND 1 SUSPECT MISSILE TRANSPORTER WITH AN OVERALL LENGTH OF 75 FT INCLUDING PRIME MOVER ARE POSITIONED THROUGHOUT THE SITE. ALL OF THE MISSILE TRANSPORTERS ARE CANVAS-COVERED. ADDITIONAL VEHICLES INCLUDE 62 PROBABLE VAN TRUCKS [REDACTED] AND 26 PROBABLE VAN TRAILERS 18 FT LONG.

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4. NERCHINSK TALL KING RADAR SITE (ELECTRONICS BONUS)

A NEWLY IDENTIFIED TALL KING RADAR SITE IS LOCATED 1 NM NORTH OF NERCHINSK ORDNANCE DEPOT EAST AT 52-00N 116-36E.

5. KYZYL TALL KING RADAR SITE (ELECTRONICS BONUS)

A NEWLY IDENTIFIED TALL KING RADAR SITE IS LOCATED 4.5 NM SW OF KYZYL AT 51-39N 094-22E.

STATUS OF COMOR TARGET READOUT.

TWENTY-THREE COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN THIS OAK. A TOTAL OF 358 TARGETS WERE REPORTED AND ARE LISTED IN THE INDEX AT THE CONCLUSION OF THIS REPORT.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES --

TABLE 1 -- SOVIET ICBM DEPLOYMENT
TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
TABLE 3 -- SAM AND AMM DEPLOYMENT
TABLE 4 -- NUCLEAR ENERGY ACTIVITY
TABLE 5 -- AIRCRAFT ACTIVITY
TABLE 6 -- SUBMARINE ACTIVITY
TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Subject ICBM Deployment

| Complex | Launch Area | | | | | | | | | | | | Total Soft Sites | Total Hard Sites | Total Single Silos | Total Launch Positions | Last Effective Coverage |
|---------------|-------------|-----|---|---|---|---|-----|---|---|---|---|---|------------------------|------------------------|--------------------------|------------------------------|-------------------------------|
| | A | B | C | D | E | F | G | H | I | J | K | L | | | | | |
| Alusak | ⊙ | M | M | M | M | | | | | | | | 6 | 6 | 6 | 6 | Jan 65 |
| Dombayevskiy | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | | | | | | | | 5 | 5 | 5 | 5 | Dec 64 |
| Douyanyaya | C | C | C | C | C | C | M** | | | | | | 12(11) | 9(11) | 9(11) | 9(11) | Jan 65 |
| Gulakaya | C | C | C | C | C | C | F** | | | | | | 10(11) | 9(11) | 9(11) | 9(11) | Jan 65 |
| Isom Gaxtelle | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | | | | | | | 6 | 6 | 6 | 6 | Jan 65 |
| Dalka | C | C | C | | | | | | | | | | 3 | | | 3 | Jan 65 |
| Kartals | ⊙ | ⊙ | ⊙ | ⊙ | M | M | | | | | | | 6 | 6 | 6 | 6 | Jan 65 |
| Kostromy | C | C | C | C | C | C | | | | | | | 6 | 1 | | 7 | Jan 65 |
| Karelsk | ⊙ | ⊙ | | ⊙ | C | C | | | | | | | 3 | | | 3 | Dec 64 |
| Novosibirsk | C | C | C | C | C | | | | | | | | 5 | 2 | | 7 | Jul 64 |
| Olshanyaya | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | | | | | | | 27(17) | 29(17) | 29(17) | 29(17) | Jan 65 |
| Pinsk | ⊙ | | | | | ⊙ | | | | | | | 1 | | | 1 | Jan 65 |
| Pom | ⊙ | ⊙ | C | ⊙ | C | C | | | | | | | 5 | 1 | | 6 | Jan 65 |
| Plenskiy | C | C | C | C | C | C | C | | | | | | 10* | 1 | | 11 | Dec 64 |
| Shelnyk | C | C | C | | | | | | | | | | 3 | | | 3 | Jan 65 |
| Sudobayev | ⊙ | C | C | C | C | ⊙ | C | ⊙ | | | | | 7 | 3 | | 10 | Jan 65 |
| Tatishchevo | M** | F** | | | | | | | | | | | 12 | 12 | 12 | 12 | Dec 64 |
| Tekstov | C | C | C | C | C | C | | | | | | | 6 | | | 6 | Jan 65 |
| Tsimon | C | | C | | | | | | | | | | 2 | | | 2 | Jan 65 |
| Ural | M | M | ⊙ | ⊙ | M | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | | 8(2) | 8(2) | 8(2) | 8(2) | Jan 65 |
| Vodopavskiy | C | C | C | C | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | | 7 | 2 | | 9 | Jan 65 |
| Yulga | C | C | C | C | C | C | C | C | C | C | C | | 10 | 2 | | 12 | Dec 64 |
| Yuzharskiy | C | C | C | C | C | C | C | C | C | C | C | | 10 | 2 | | 12 | Jan 65 |
| Yurya | C | C | ⊙ | ⊙ | ⊙ | ⊙ | C | C | ⊙ | C | ⊙ | | 8 | 3 | | 11 | Jan 65 |
| Zhigayevskiy | M | M | M | M | M | E | | | | | | | 6 | 6 | 6 | 6 | Dec 64 |

Deployment Total 22 158(105) 92(105) 129(105)

Excluded MFI C C C C C C C C C C C C C 10 8 8 8 Jan 65

Grand Total 32 127(105) 101(105) 137(105)

*Includes Launch Point ID, complete, but does not include 2 NM pads at Launch Area F

Construction Status (C=Complete, L=Late, M=Not, F=Early)

**Current Launch Status

⊙ Covered by current mission

⊙ Newly identified

*Possible

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Table 2. Soviet MRBM and IRBM Deployment

| Geographic Area | Soft MRBM Launch Areas | Soft IRBM Launch Areas | Hard MRBM Launch Areas | Hard IRBM Launch Areas | Total Launch Areas | Total Launch Positions |
|-----------------|------------------------|------------------------|------------------------|------------------------|--------------------|------------------------|
| Western | 121 | 11 | 18 | 11 | 161 | 633 |
| Caucasus | 3 | | 2 | 3 | 8 | 29 |
| Central Asia | 2 | 3 | 1 | 3 | 9 | 33 |
| Far Eastern | 10 | 1 | | 1 | 12 | 47 |
| Totals | 136 | 15 | 21 | 18 | 190 | 742 |

Totals do not include 72 fixed field-type sites with total of 266 launch positions and one launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM Deployment

| | Country | | | | | | | | | | | | | | Totals |
|------------------------|---------|---------|----------|----------------|---------|--------|---------|------------|-------|-------------|-----------|-------|------|-------|--------|
| | USSR | Albania | Bulgaria | Czechoslovakia | Hungary | Poland | Romania | Yugoslavia | China | North Korea | Indonesia | Egypt | Cuba | India | Totals |
| SA-0 | 13 | | | | | | | | | | | | | | 13 |
| SA-1 | 56 | | | | | | | | | | | | | | 56 |
| SA-2 | 982* | 1 | 19 | 23 | 16 | 30 | 18 | 3 | 14 | 2 | 4 | 21 | 24** | 1 | 1205 |
| SA-3 | 107 | | | | | 1 | | | | | | | | | 108 |
| SAM support facilities | 196 | 1 | 4 | 5 | 3 | 6 | 2 | 1 | | 1 | | 4 | 6 | | 232 |
| Probable AMM complexes | 3 | | | | | | | | | | | | | | 3 |
| AMM/SAM complexes | 2*** | | | | | | | | | | | | | | 2 |

*Does not include 4 alternate sites, USSR.

***Includes 1 suspect complex.

**Does not include 22 abandoned sites.

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*NUCLEAR WEAPONS STORAGE *POSSIBLE : PROBABLE **RACER CAMEL ***PLUS CHARGER CAMEL (COOKING) R+ BEAR CAMEL

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Missiles

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MISSILES

YURYA ICBM LAUNCH AREA C (SITE 3) UR 5912N 04925E

LAUNCH AREA C, A COMPLETED TYPE IIB LAUNCH SITE, IS ENCLOSED BY A DOUBLE SECURITY FENCE. AN ERECTOR/SHELTER IS ON EACH PAD. TWO EARTH-BANKED MISSILE-READY BUILDINGS ARE WITHIN THE LAUNCH SITE. ONE READY-BUILDING, 170 X 125 FT, IS BEHIND THE RIGHT PAD AND CANTED INWARD APPROXIMATELY 30 DEGREES. THE OTHER READY-BUILDING, 170 X 60 FT, IS BEHIND THE LEFT PAD. FOUR LARGE CENTER BUILDINGS (2 EARTH-BANKED) AND 5 SMALLER BUILDINGS ARE INBOARD OF THE PADS.

SEVERAL OTHER SMALL BUILDINGS ARE WITHIN THE LAUNCH SITE. SIX VEHICLES ARE ON THE APRON IN FRONT OF THE REAR CENTER BUILDING AND 2 PROBABLE VEHICLES ARE ON THE APRON IN FRONT OF THE FORWARD CENTER BUILDING. THERE ARE 2 VEHICLES/OBJECTS ON THE APRON IN FRONT OF THE LOOP ROAD. APPROXIMATELY 14 SMALL BUILDINGS ARE AT THE ENTRANCE TO THE LAUNCH SITE. THREE EARTH-BANKED, ARCH-ROOFED, DRIVE-THROUGH BUILDINGS ARE ADJACENT TO THE SITE ACCESS ROAD. THE SITE SUPPORT FACILITY CONTAINS ABOUT 80 BUILDINGS. ROADS APPEAR SNOW COVERED, BUT PASSABLE. NO CHANGE IN ESTABLISHED MENSURATION.

YURYA ICBM LAUNCH AREA D (SITE 4) UR 5916N 04922E

LAUNCH AREA IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY WITH GROUND SNOW COVER. THIS LAUNCH AREA CONSISTS OF A COMPLETED TYPE IIB LAUNCH SITE AND A SITE SUPPORT FACILITY. ROADS AT THE LAUNCH SITE ARE SNOW COVERED, BUT APPEAR PASSABLE. THREE EARTH-MOUNDED BUILDINGS AND 4 OTHER BUILDINGS ARE LEFT OF THE OFF-SET CENTER ROAD. A SMALL EARTH-MOUNDED BUILDING IS JUST OUTBOARD OF EACH LAUNCH PAD. AN EARTH-MOUNDED MISSILE-READY BUILDING IS TO THE REAR OF THE LEFT LAUNCH PAD AND CANTED OUTWARD APPROXIMATELY 30 DEGREES. AN EARTH-MOUNDED,

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APPROXIMATELY 170- X 60-FT PROBABLE MISSILE-READY BUILDING IS IN-LINE WITH AND TO THE REAR OF THE RIGHT LAUNCH PAD. BETWEEN EACH LAUNCH PAD AND ITS READY BUILDING, AND OUTBOARD OF THE ROAD IS A SMALL EARTH-MOUNDED BUILDING.

ONE TOWER CAN BE SEEN SLIGHTLY FORWARD OF AND OUTBOARD TO THE LEFT LAUNCH PAD, AND ANOTHER ONE IS LOCATED SLIGHTLY BEHIND AND INBOARD OF THE RIGHT LAUNCH PAD. NO CHANGE IN ESTABLISHED MENSURATION.

SINCE THE LAUNCH SITE WAS DECLARED COMPLETE ON SEP 62, 13 BUILDINGS, INCLUDING 1 DRIVE-THROUGH AND 1 UNDER CONSTRUCTION, HAVE BEEN ADDED TO THE SITE SUPPORT FACILITY WHICH NOW CONTAINS APPROXIMATELY 40 BUILDINGS. THREE BUILDINGS APPEAR TO HAVE BEEN REMOVED.

YURYA ICBM LAUNCH AREA E (SITE 5) UR 5923N 04917E

LAUNCH AREA IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. ROADS ARE SNOW COVERED, BUT APPEAR PASSABLE. THE LAUNCH AREA CONSISTS OF A COMPLETED TYPE IIIA LAUNCH SITE, A SITE SUPPORT FACILITY, AND A RIM FACILITY. AT THE LAUNCH SITE, A PROBABLE SPRAY POND IS OUTSIDE OF AND TO THE SOUTH OF THE LOOP ROAD BEHIND THE LEFT SILO. THE LEFT AND RIGHT SILO DOORS APPEAR OPEN. THE LARGE BUILDING BEHIND AND TO THE LEFT OF THE LEFT SILO IS EARTH-MOUNDED. NO CHANGE IN ESTABLISHED MENSURATION.

SINCE THE SITE WAS OBSERVED COMPLETE ON JUN 63, AT LEAST 13 BUILDINGS HAVE BEEN REMOVED FROM THE ADMINISTRATION AND HOUSING SECTION OF THE SITE SUPPORT FACILITY, WHICH NOW CONTAINS APPROXIMATELY 17 BUILDINGS, AND 6 BUILDINGS HAVE BEEN ADDED TO THE POSSIBLE TECHNICAL SECTION. TWO ADDITIONAL BUILDINGS HAVE BEEN CONSTRUCTED EAST OF THE POSSIBLE TECHNICAL SECTION SINCE MISSION 1008, JUL 64. THE RIM FACILITY CONTAINS

EARTH-MOUNDED RIM BUILDING.

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YURYA ICBM LAUNCH AREA F (SITE 7) UR 5921N 04914E

LAUNCH AREA F IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. AN APPROXIMATELY 170- X 60-FT MISSILE-READY BUILDING IS TO THE REAR OF THE RIGHT PAD. FOURTEEN VEHICLES/PIECES OF EQUIPMENT ARE VISIBLE -- 1 ON THE FORWARD LOOP ROAD IN FRONT OF THE RIGHT PAD. TWO RECTANGULAR BUILDINGS HAVE BEEN ADDED ADJACENT TO THE SITE ACCESS ROAD IMMEDIATELY EAST OF THE SECURITY FENCE. FOUR BUILDINGS HAVE BEEN REMOVED FROM THE SITE SUPPORT FACILITY SOUTH OF THE SITE ACCESS ROAD. TWO RECTANGULAR, TRIPLE-ARCH-ROOFED BUILDINGS, 1 RECTANGULAR BUILDING, AND A HEATING PLANT HAVE BEEN ADDED TO THE SITE SUPPORT FACILITY NORTH OF THE SITE ACCESS ROAD. ROADS APPEAR SNOW COVERED, BUT PASSABLE. NO OTHER SIGNIFICANT CHANGE SINCE THE SITE WAS CONSIDERED COMPLETE ON NOV 62. NO CHANGE IN ESTABLISHED MENSURATION.

YURYA ICBM LAUNCH AREA I (SITE 11) UR 5920N 04925E

LAUNCH AREA IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY WITH GROUND SNOW COVER. THE LAUNCH AREA CONSISTS OF A COMPLETED TYPE IID LAUNCH SITE AND A SITE SUPPORT FACILITY. TWO EARTH-MOUNDED BUILDINGS ARE INBOARD OF, AND CANTED TO EACH LAUNCH PAD. FOUR EARTH-MOUNDED BUILDINGS ARE CENTRALLY LOCATED BETWEEN THE LAUNCH PADS. AN EARTH-BANKED MISSILE-READY BUILDING IS TO THE REAR OF THE LEFT LAUNCH PAD AND CANTED OUTWARD APPROXIMATELY 30 DEGREES.

ONLY 1 OF THE 3 BUILDINGS IS EARTH-MOUNDED. THE SITE SUPPORT FACILITY IS LOCATED WEST OF THE LAUNCH SITE AND CONTAINS APPROXIMATELY 35 BUILDINGS, INCLUDING 1 DRIVE-THROUGH BUILDING. NO CHANGE IN ESTABLISHED MENSURATION.

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-M1A0005K YURYA ICBM LAUNCH AREA K (SITE 10) UR 5913N 04918E

LAUNCH AREA IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY. A [] PROBABLE MISSILE IS VISIBLE ON THE LOOP ROAD AT THE LAUNCH SITE. TWO PROBABLE PIECES OF GROUND SUPPORT EQUIPMENT ARE IN A VEHICLE PARK ADJACENT TO THE LOOP ROAD. EFFORTS HAVE BEEN MADE TO MEASURE THE NOSECONE SECTION AND FLARED, SKIRTED ENGINE SECTION OF THE MISSILE. THE NOSECONE APPEARS TO BE APPROXIMATELY [] AND THE FLARED SECTION APPEARS TO BE [] IN LENGTH AND WIDENS TO A MAXIMUM DIAMETER [] MEASUREMENTS OF THE FORWARD AND AFT SECTIONS OF THE MISSILE ARE CONSIDERABLY HAMPERED BY PHOTO LIMITATIONS. THE 20 PROBABLE PIECES OF GROUND SUPPORT EQUIPMENT ARE APPROXIMATELY [] AND HAVE 2 PARALLEL MAIN LONGITUDINAL SUPPORTS WHICH APPEAR TO [] AND 35 FT, RESPECTIVELY. THE PARALLEL SUPPORTS ARE JOINED BY 2 MAIN CROSS MEMBERS LOCATED NEAR EITHER END. THE MAJOR STRUCTURAL COMPONENTS APPEAR TO HAVE A WIDTH OF [] ALL DIMENSIONS TAKEN FROM THIS MISSION ARE ACCURATE TO WITHIN [] 5 PERCENT, WHICHEVER IS GREATER. THE LAUNCH AREA CONSISTS OF A COMPLETED TYPE IIIA LAUNCH SITE AND A SITE SUPPORT FACILITY. THE LAUNCH SITE IS DOUBLY SECURED AND CONSISTS OF A TYPICAL LOOP ROAD CONFIGURATION, SPRAY POND, 2 EARTH-MOUNDED RIM BUILDINGS,

[] AN ADDITIONAL EARTH-MOUNDED BUILDING IS JUST INSIDE THE SECURITY FENCE ON THE EAST SIDE OF THE LAUNCH SITE.

THE SITE SUPPORT FACILITY APPROXIMATELY 3,000 FT ESE CONTAINS APPROXIMATELY 51 BUILDINGS, A HEATING PLANT, AND 2 SEMI-BURIED STORAGE TANKS. ROADS ARE SNOW COVERED BUT

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PASSABLE.

NO CHANGE IN ESTABLISHED MENSURATION FOR
THIS TYPE OF LAUNCH SITE.

[REDACTED] PERM ICBM LAUNCH AREA A (SITE 1) UR 5741N 05611E

LAUNCH AREA A IS COVERED ON NON-STEREO PHOTOGRAPHY
WITH GROUND SNOW COVER. APPROXIMATELY 18 VEHICLES,
INCLUDING 6 PROBABLE FUEL TRANSPORTERS ADJACENT TO
THE LEFT MISSILE-READY BUILDING, ARE WITHIN THE LAUNCH
SITE. THE MISSILE-READY BUILDING BEHIND THE
RIGHT PAD HAS BEEN EARTH-BANKED. NO OTHER SIGNIFICANT
CHANGE IN THE LAUNCH AREA SINCE [REDACTED] DEC 64.
NO CHANGE IN ESTABLISHED MENSURATION.

[REDACTED] PERM ICBM LAUNCH AREA B (SITE 2) UR 5743N 05554E

LAUNCH AREA B IS COVERED ON NON-STEREO PHOTOGRAPHY
WITH GROUND SNOW COVER. APPROXIMATELY 10 VEHICLES,
INCLUDING 6 PROBABLE FUEL TRANSPORTERS APPROXIMATELY
600 FT BEHIND THE LEFT PAD, ARE WITHIN THE SITE.
NO OTHER SIGNIFICANT CHANGE IN THE LAUNCH AREA SINCE
[REDACTED] JAN 65. NO CHANGE IN ESTABLISHED
MENSURATION.

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[REDACTED] PERM ICBM LAUNCH AREA D (SITE 6) UR 5744N 05600E 25X1

LAUNCH AREA D IS COVERED ON NON-STEREO PHOTOGRAPHY WITH GROUND SNOW COVER. THE 70- X 20-FT PROBABLE VEHICLE/TRAILER SITUATED ON THE ROAD IMMEDIATELY IN FRONT OF THE MISSILE-READY BUILDING ON [REDACTED]

[REDACTED] JAN 65 IS STILL PRESENT. THE AREA OF UNIDENTIFIED ACTIVITY APPROXIMATELY 700 FT DIRECTLY BEHIND THE LEFT PAD, PREVIOUSLY REPORTED ON [REDACTED]

[REDACTED] JAN 65, IS NOW IDENTIFIED AS A BUILDING IN AN EARLY STAGE OF CONSTRUCTION. NO OTHER SIGNIFICANT CHANGE IN LAUNCH AREA SINCE [REDACTED] NO CHANGE IN ESTABLISHED MENSURATION. 25X1

[REDACTED] PERM ICBM LAUNCH AREA F (SITE 4) UR 5741N 05604E 25X1

LAUNCH AREA F IS COVERED ON NON-STEREO PHOTOGRAPHY WITH HAZE AND GROUND SNOW COVER. A STRUCTURE/OBJECT IS ON THE APRON IN FRONT OF THE LOOP ROAD WITHIN THE LAUNCH SITE. A POSSIBLE VEHICLE IS ON THE ROAD LEADING TO THE CENTER SILO. NO OTHER SIGNIFICANT CHANGE IN THE LAUNCH AREA SINCE [REDACTED]

[REDACTED] DEC 64. NO CHANGE IN ESTABLISHED MENSURATION. 25X1

[REDACTED] OLOVYANNAYA ICBM LAUNCH AREA A (SITE 1) UR 5054N 11548E 25X1

POOR IMAGE QUALITY AND HAZE PRECLUDE INTERPRETATION OF DETAILS. NO APPARENT CHANGE SINCE [REDACTED] JAN 65. NO CHANGE IN ESTABLISHED MENSURATION. 25X1

[REDACTED] OLOVYANNAYA ICBM LAUNCH AREA B (SITE 2) UR 5055N 11544E 25X1

NO SIGNIFICANT CHANGE OBSERVED ON NON-STEREO PHOTOGRAPHY SINCE [REDACTED] JAN 65. NO CHANGE IN ESTABLISHED MENSURATION. 25X1

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OLOVYANNAYA ICBM LAUNCH AREA C (SITE 3) UR 5101N 11558E

NO SIGNIFICANT CHANGE SINCE JAN 65.

OLOVYANNAYA ICBM LNCH GRP D (SITES 4-13) UR 5104N 11604E

GOOD QUALITY STEREO COVERAGE OF LAUNCH GROUP D SHOWS THAT THERE IS ONLY 1 LAUNCH SILO PER SITE. THE AREA OF ACTIVITY IN SOME OF THE LAUNCH SITES, WHICH WAS PREVIOUSLY REPORTED AS A PROBABLE SECOND SILO, IS IDENTIFIED AS A SMALL BUILDING WITH AN EXCAVATION NEARBY.

PROBABLE LAUNCH SITES D14 AND D15 ARE CONFIRMED ON THIS MISSION. AND 3 POSSIBLE LAUNCH SITES ARE NEWLY IDENTIFIED. AS PREVIOUSLY REPORTED, SITES D11 THROUGH D17 ARE ARRANGED IN A GENERALLY CIRCULAR CONFIGURATION WITH SITE D14 AT ITS CENTER. ANALYSIS OF SITE D14 ON THIS MISSION SHOWS THAT IT IS SIMILAR TO THE CENTRALLY LOCATED SITE D7, AROUND WHICH THE REMAINDER OF SITES D1 THROUGH D10 ARE ALSO CIRCULARLY ARRANGED. SITES D7 AND D14 EACH HAVE ASSOCIATED SUPPORT FACILITIES AND A POSSIBLE CONTROL FACILITY, WHILE NONE OF THE OTHER SITES HAVE EVIDENCE OF THIS CHARACTERISTIC.

SITES D11 THROUGH D17 AND THE 3 NEWLY IDENTIFIED POSSIBLE SITES ARE BELIEVED TO CONSTITUTE A SECOND LAUNCH GROUP. THEREFORE, THEY ARE DESIGNATED LAUNCH GROUP E, SITES E1 THROUGH E10. SPECIFICALLY, SITE D14 IS NOW E1 (SITE 17), SITE D11 IS NOW E2 (SITE 14), SITE D12 IS NOW E3 (SITE 15), SITE D13 IS NOW E4 (SITE 16), SITE D16 IS NOW E5 (SITE 19), SITE D15 IS NOW E6 (SITE 18), SITE D17 IS NOW E7 (SITE 20), AND THE NEWLY IDENTIFIED POSSIBLE SITES ARE DESIGNATED E8, E9, AND E10.

A COMPARISON OF SITES D7 AND D14, AND SITE A1 AT

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

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25X1

25X1

THE TATISHCHEVO ICBM COMPLEX, WITH THE NEWLY IDENTIFIED SINGLE SILO (K3) AT COMPLEX K AT THE TYURATAM MISSILE TEST CENTER INDICATES THAT K3 AT THE TTMTc IS POSSIBLY THE PROTOTYPE OF THIS TYPE OF SITE, INSTEAD OF LAUNCH AREA G8-G9 AT THE TTMTc. ALL 4 OF THE SITES COMPARED HAVE SIMILARLY SHAPED FENCE LINES AND A T-SHAPED ROAD PATTERN WITH A SINGLE SILO. ALTHOUGH AN L-SHAPED ELECTRONICS FACILITY LIKE THAT AT LAUNCH SITE K3, TTMTc, HAS NOT BEEN IDENTIFIED AT THE DEPLOYED SITES, THE FENCED AREAS ARE LARGE ENOUGH TO ACCOMMODATE ONE.

LAUNCH SITE D1 (SITE 4)

THE SITE CONSISTS OF A GENERALLY SQUARE SECURED AREA CONTAINING A SINGLE SILO. A RECTANGULAR CUT EXTENDS NE FROM THE SILO AND A RECTANGULAR EARTHFILL EXTENDS SW. THE CUT AND FILL PROVIDE A LEVEL ACCESS TO THE SILO. THE SILO IS BACKFILLED EXCEPT ON ITS NW SIDE. A FLAT COVER [REDACTED] IS OVER THE SILO, AND A SMALL BUILDING IS LOCATED APPROXIMATELY 470 FT SE. CABLE DITCHES FROM ADJACENT SITES TERMINATE NEAR A SHALLOW EXCAVATION ON THE NW SIDE OF THE SILO.

25X1

LAUNCH SITE D2 (SITE 5)

NO SECURITY FENCING CAN BE IDENTIFIED. A SINGLE CIRCULAR SILO IS LOCATED NEAR THE CENTER OF A FLAT-TOPPED EARTH MOUND ORIENTED IN A NE/SW DIRECTION. THE MOUND PROVIDES LEVEL ACCESS TO THE SILO. THE SILO APPEARS TO HAVE A RETAINING WALL ON 3 SIDES AND BACKFILLING IS COMPLETE TO THE RETAINING WALLS. THE FOURTH (NW) SIDE IS OPEN AND HAS A SHALLOW EXCAVATION ADJACENT TO THE SILO. CABLE DITCHES FROM ADJACENT SITES TERMINATE NEAR THE SHALLOW EXCAVATION. A SMALL BUILDING IS LOCATED APPROXIMATELY 500 FT SW OF THE SILO AND A SHALLOW EXCAVATION WITH AN UNIDENTIFIED OBJECT IN IT IS NEAR THE BUILDING.

LAUNCH SITE D3 (SITE 7)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

SECURITY FENCING CANNOT BE IDENTIFIED. THE SILO IS IN THE APPROXIMATE CENTER OF A RECTANGULAR, GRADED AREA ORIENTED IN A NE/SW DIRECTION. THE SILO IS IN A DARK IMAGE AREA AND CANNOT BE IDENTIFIED, HOWEVER, IT HAS BEEN IDENTIFIED ON PREVIOUS MISSIONS. CABLE DITCHES FROM ADJACENT SITES TERMINATE NEAR A SHALLOW EXCAVATION ON THE NW SIDE OF THE SILO. A BUILDING, APPROXIMATELY 20 X 30 FT, IS LOCATED APPROXIMATELY 500 FT WEST OF THE SILO. THE BUILDING HAS A LOW, APPROXIMATELY 10-X 30-FT EXTENSION PROTRUDING FROM THE SOUTH SIDE. A SMALL EXCAVATION IS NEAR THE BUILDING.

LAUNCH SITE D4 (SITE 8)

A CIRCULAR SILO IS LOCATED IN THE NE/SW LEG OF A T-SHAPED LEVEL ACCESS TO THE SILO. THE LEVEL ACCESS IS COMPOSED OF PARTIAL EARTH CUT AND PARTIAL EARTHFILL. THE SILO HAS NOT BEEN BACKFILLED. SHALLOW EXCAVATIONS ARE LOCATED JUST SOUTH AND NW OF THE SILO AND A CABLE DITCH FROM AN ADJACENT SITE TERMINATES NEAR THE ONE TO THE NW. A SMALL BUILDING, APPROXIMATELY 20 X 40 FT, IS LOCATED APPROXIMATELY 500 FT WEST OF THE SILO. THE BUILDING HAS A LOW EXTENSION, APPROXIMATELY 10 X 30 FT, PROTRUDING FROM ITS NORTH SIDE. A DITCH EXTENDS WESTWARD FROM THE BUILDING FOR A SHORT DISTANCE. A SECOND SMALL BUILDING IS LOCATED APPROXIMATELY 1,000 FT WEST OF THE SILO.

LAUNCH SITE D5 (SITE 9)

THE SITE IS ENCLOSED BY A GENERALLY SQUARE SECURITY FENCE. THE SILO IS IN THE CENTER OF 1 LEG OF AN L-SHAPED MOUNDED-EARTH LEVEL ACCESS TO THE SILO. THE LEG CONTAINING THE SILO IS ORIENTED NE/SW. THE SILO IS CIRCULAR, IS NOT BACKFILLED, AND HAS A SQUARE PROTUBERANCE ON ITS NORTH SIDE. PRELIMINARY MENSURATION INDICATES AN INSIDE SILO

THE SQUARE PROTUBERANCE IS APPROXIMATELY
A SMALL BUILDING, APPROXIMATELY
25 X 30 FT, IS LOCATED APPROXIMATELY

TOP SECRET CHESS RUFF

25X1
25X125X1
25X1
25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

500 FT SW OF THE SILO. THE BUILDING HAS A LOW EXTENSION, APPROXIMATELY 10 X 30 FT, PROTRUDING FROM ITS WEST SIDE. A SMALL EXCAVATION IS LOCATED JUST WEST OF THE BUILDING. A SECOND BUILDING IS LOCATED APPROXIMATELY 1,700 FT SOUTH OF THE SILO. FIVE POSSIBLE VEHICLES ARE PARKED NEAR THE SILO.

LAUNCH SITE D6 (SITE 10)

THE SITE IS ENCLOSED BY A GENERALLY SQUARE SECURITY FENCE. THE SILO IS IN THE CENTER OF 1 LEG OF AN L-SHAPED MOUNDED-EARTH LEVEL ACCESS TO THE SILO. THE LEG CONTAINING THE SILO IS ORIENTED NE/SW. THE SILO IS CIRCULAR, IS NOT BACKFILLED AND HAS A SQUARE PROTUBERANCE ON ITS NORTH SIDE. PRELIMINARY MENSURATION INDICATES AN INSIDE SILO

THE SQUARE PROTUBERANCE IS APPROXIMATELY 10 FT ON A SIDE. A SMALL BUILDING APPROXIMATELY 25 X 30 FT IS LOCATED APPROXIMATELY 500 FT SOUTH OF THE SILO. THE BUILDING HAS A LOW EXTENSION APPROXIMATELY 10 X 30 FT PROTRUDING FROM ITS WEST SIDE. A SMALL EXCAVATION IS LOCATED JUST WEST OF THE BUILDING. CABLE DITCHES FROM ADJOINING SITES TERMINATE AT THE FENCE LINE.

LAUNCH SITE D7 (SITE 6)

THIS IS THE CENTRALLY LOCATED SITE IN LAUNCH GROUP D. THE SITE IS SIMILAR IN CONFIGURATION TO LAUNCH AREA K3 AT THE TTMC. A GENERALLY TRIANGULAR SECURITY FENCE ENCLOSES THE SITE, WHICH INCLUDES A SINGLE SILO AND A POSSIBLE GROUP CONTROL FACILITY UNDER CONSTRUCTION. ALTHOUGH AN L-SHAPED ELECTRONICS DEVICE CANNOT BE IDENTIFIED, THERE IS SUFFICIENT SPACE WITHIN THE SECURED AREA TO ACCOMMODATE ONE. THE SILO IS IN THE CENTER OF 1 LEG OF A T-SHAPED MOUNDED-EARTH LEVEL ACCESS TO THE SILO. THE LEG CONTAINING THE SILO IS ORIENTED NE/SW. THE SILO IS COMPLETELY BACKFILLED AND IS COVERED BY A LOW SQUARE COVER APPROXIMATELY A BUILDING, APPARENTLY IDENTICAL TO THOSE SEEN AT OTHER SITES, IS LOCATED APPROXIMATELY

TOP SECRET CHESS RUFF

25X1
25X125X1
25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

25X1

25X1

500 FT SW OF THE SILO. THE BUILDING IS APPROXIMATELY 20 X 30 FT AND HAS A LOW EXTENSION APPROXIMATELY 10 X 30 FT PROTRUDING FROM ITS NW SIDE. A SMALL EXCAVATION IS NEAR THE BUILDING. CABLE DITCHES FROM ADJOINING SITES TERMINATE NEAR THE SECURITY FENCE. APPROXIMATELY 500 FT EAST OF THE SILO THERE IS A FAIRLY LARGE EXCAVATION CONTAINING A RECTANGULAR STRUCTURE. THE INTERSECTION OF THE LEGS OF AN L-SHAPED ELECTRONIC DEVICE WOULD PROBABLY BE LOCATED NEAR THIS STRUCTURE. THERE IS A BUILDING APPROXIMATELY 120 X 25 FT ADJACENT TO THE EXCAVATION. THE BUILDING SEEMS TO BE SLIGHTLY DUG IN, AS THE FLOOR LEVEL OF THE BUILDING APPEARS TO BE LOWER THAN GROUND LEVEL, BUT THE TOP OF THE BUILDING IS ABOVE GROUND LEVEL. A SUPPORT FACILITY OF APPROXIMATELY 25 BUILDINGS IS LOCATED SE OF THE LAUNCH SITE. OF THESE, 7 ARE BARRACKS-TYPE, ONE IS EARTH-MOUNDED, AND THE REMAINDER ARE MISCELLANEOUS BUILDINGS OF VARIOUS SIZES AND SHAPES.

LAUNCH SITE D8 (SITE 12)

THE SITE IS ENCLOSED BY A GENERALLY SQUARE SECURITY FENCE. THE SILO IS IN THE CENTER OF A SILO LEVEL ACCESS FORMED BY AN EARTHFILL ON THE NE END, AND AN EARTH CUT ON THE SW END. A CURVING EARTH RAMP LEADS UP TO THE NE END OF THE LEVEL ACCESS. THE SILO IS COMPLETELY BACKFILLED AND HAS A LOW SQUARE COVER OVER IT WHICH IS APPROXIMATELY 20 X 25 FT ON A SIDE. A BUILDING APPROXIMATELY 20 X 30 FT IS LOCATED APPROXIMATELY 500 FT WEST OF THE SILO. THE BUILDING HAS A LOW, APPROXIMATELY 10-X 30-FT EXTENSION PROTRUDING FROM ITS WEST SIDE. A SMALL EXCAVATION IS NEAR THE BUILDING. A SECOND SMALL BUILDING IS LOCATED APPROXIMATELY 1,200 FT SW OF THE SILO. CABLE DITCHES FROM ADJOINING SITES TERMINATE AT A POINT JUST WEST OF THE SILO.

LAUNCH SITE D9 (SITE 13)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

25X1

25X1

THIS SITE IS COVERED BY MONOSCOPIC PHOTOGRAPHY. SECURITY FENCING CANNOT BE IDENTIFIED. THE SILO IS IN THE CENTER OF 1 LEG OF A T-SHAPED MOUNDED-EARTH LEVEL ACCESS TO THE SILO. THE LEG CONTAINING THE SILO IS ORIENTED NE/SW. THE SILO APPEARS TO HAVE A RETAINING WALL ON 3 SIDES AND BACKFILLING IS COMPLETE TO THE RETAINING WALLS, EXCEPT ON THE SOUTH AND WEST SIDES. THE WEST SIDE HAS A SHALLOW EXCAVATION ADJACENT TO THE SILO. A SMALL EXCAVATION IS LOCATED JUST SOUTH OF THE SILO AND ADJACENT TO THE EARTHFILL FORMING THE SILO LEVEL ACCESS. A CABLE DITCH FROM AN ADJOINING SITE ENTERS THIS EXCAVATION. A SMALL BUILDING IS LOCATED APPROXIMATELY 500 FT SE OF THE SILO, AND ALTHOUGH DETAILS ARE NOT DEFINITE IT APPEARS TO BE SIMILAR TO THOSE DESCRIBED AT OTHER SITES. A SECOND SMALL BUILDING IS LOCATED APPROXIMATELY 1,700 FT WEST OF THE SILO.

LAUNCH SITE D10 (SITE 11)

THIS SITE IS COVERED BY MONOSCOPIC PHOTOGRAPHY. SECURITY FENCING CANNOT BE IDENTIFIED. THE SILO LEVEL ACCESS IS T-SHAPED AND COMPOSED OF PARTIAL EARTH CUT AND PARTIAL EARTHFILL. THE LEG CONTAINING THE SILO IS POSSIBLY BACKFILLED EXCEPT ON ITS WEST SIDE. A SMALL BUILDING IS LOCATED APPROXIMATELY 500 FT SSE OF THE SILO. THE BUILDING IS APPROXIMATELY 25 X 30 FT AND HAS A LOW EXTENSION, APPROXIMATELY 10 X 30 FT, PROTRUDING FROM ITS SOUTH SIDE. CABLE DITCHES FROM ADJOINING SITES TERMINATE APPROXIMATELY 600 FT FROM THE SILO.

LAUNCH GROUP E

LAUNCH SITE E1.

THIS IS THE CENTRALLY LOCATED SITE IN LAUNCH GROUP E. THE SITE IS SIMILAR IN CONFIGURATION TO LAUNCH AREA K3 AT THE TTMT. A GENERALLY TRIANGULAR SECURITY FENCE ENCLOSES THE SITE, WHICH INCLUDES A SINGLE SILO, AND AN EXCAVATION

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

25X1

25X1

WHICH MAY BE THE BEGINNING OF A FUTURE GROUP CONTROL FACILITY. ALTHOUGH AN L-SHAPED ELECTRONIC DEVICE CANNOT BE IDENTIFIED, THERE IS SUFFICIENT SPACE WITHIN THE SECURED AREA TO ACCOMMODATE ONE. THE CIRCULAR SILO IS UNDER CONSTRUCTION IN A SHALLOW EXCAVATION. EARTH IS BEING PILED IN A NE/SW DIRECTION SW OF THE SILO TO PROVIDE A LEVEL ACCESS TO THE SILO. APPROXIMATELY 500 FT EAST OF THE SILO IS A SHALLOW RECTANGULAR EXCAVATION. OUTSIDE OF THE SECURITY FENCE, AND ON THE SOUTH SIDE OF THE SITE, THERE IS A SUPPORT FACILITY CONSISTING OF 10 BUILDINGS. THREE OF THESE ARE STILL UNDER CONSTRUCTION. SEVEN OF THE BUILDINGS ARE BARRACKS-TYPE, AND THE OTHER 3 ARE SMALL MISCELLANEOUS TYPES. ONE OF THE SMALL BUILDINGS HAS A SECURITY FENCE AROUND IT. SEVERAL POSSIBLE VEHICLES ARE IN THE VICINITY.

LAUNCH SITE E2

THE SITE CONSISTS OF A SINGLE SILO IN AN EXCAVATION. THE EXCAVATION IS SITUATED AT THE END OF 1 LEG OF A T-SHAPED EARTHEN RAMP. THIS RAMP PROVIDES A LEVEL ACCESS TO THE SILO. THE LEG CONTAINING THE SILO IS ORIENTED ON A NE/SW AXIS. WIDE-RADIUS TURNS ARE APPARENT AT THE INTERSECTION OF THE T AND A SQUARE EXCAVATION IS VISIBLE NEAR THE END OF THE WESTERN SECTION OF THE RAMP. A SMALLER NARROW EXCAVATION IS LOCATED JUST EAST OF THE LARGER, SQUARE ONE. A CABLE SCAR OR TRENCH EXTENDS ONT FROM THE SQUARE EXCAVATION TOWARD SITE E1. NO SECURITY FENCE CAN BE IDENTIFIED AROUND THE SITE.

LAUNCH SITE E3

THE LAUNCH SITE CONSISTS OF A SINGLE SILO IN AN EXCAVATION. THIS EXCAVATION IS SITUATED AT THE NORTH END OF A T-SHAPED EARTHEN RAMP. THIS LEG OF THE T IS ORIENTED ON A NE/SW AZIMUTH. THE BASE OF THE T EXTENDS TOWARD THE EAST AND WIDE-RADIUS TURNS ARE APPARENT AT THE INTERSECTION OF THE T. A SMALL BUILDING IS SITUATED NEAR THE SOUTH END OF THE EARTH RAMP. A DARK AREA BEHIND THE BUILDING APPEARS TO BE SPOIL. A SMALL NARROW EXCAVATION IS EVIDENT JUST OFF THE WEST EDGE OF THE EARTHEN RAMP.

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

25X1
25X1

NEAR THE INTERSECTION OF THE T. NO SECURITY FENCING CAN BE IDENTIFIED AROUND THE SITE.

LAUNCH SITE E4

THE SITE CONSISTS OF A SINGLE SILO IN AN EXCAVATION. THE EXCAVATION IS SITUATED AT THE BASE OF A FLAT-TOPPED RECTANGULAR EARTH MOUND. THIS MOUND, ORIENTED ON A NE/SW AZIMUTH PROVIDES A LEVEL ACCESS TO THE SILO. CONSTRUCTION IS NOT YET TO THE POINT WHERE THE T-SHAPED RAMP APPEARS BUT THE EXISTING MOUND WILL PROBABLY BE A PORTION OF IT. A SQUARE EXCAVATION IS LOCATED SW OF THE SILO AND EXTENSIVE SCARRING AND TRACK ACTIVITY INDICATE CONSTRUCTION IS IN PROGRESS. A SECURITY FENCE CAN BE IDENTIFIED ON THE NORTH AND EAST SIDES OF THE SITE.

LAUNCH SITE E5

THE SITE CONSISTS OF A SINGLE SILO IN AN EXCAVATION. THE EXCAVATION IS AT ABOUT THE MID POINT IN THE NE/SW LEG OF A T-SHAPED EARTHEN RAMP. THE OTHER LEGS ARE PRESENT BUT STILL UNDER CONSTRUCTION AND HAVE NOT BEEN EXTENDED OR GRADED. THERE IS A SQUARE EXCAVATION JUST OFF THE END OF THE WEST LEG OF THE T. A SMALLER, NARROW EXCAVATION IS LOCATED JUST WEST OF THE SQUARE EXCAVATION. THERE IS ALSO A SMALL BORROW PIT LOCATED EAST OF THE SITE. A PROBABLE SECURITY FENCE IS EVIDENT ON THE SOUTH AND WEST SIDES OF THE SITE.

LAUNCH SITE E6

THE SITE CONSISTS OF A SINGLE SILO IN EXCAVATION. THE EXCAVATION IS SITUATED AT THE SOUTH END OF A FLAT-TOPPED, RECTANGULAR EARTH MOUND WHICH IS ORIENTED ON A NE/SW AZIMUTH. THERE IS A LARGE IRREGULAR-SHAPED EARTH-MOUND JUST NW OF THE SILO AND A SQUARE EXCAVATION TO THE WEST OF THE SILO. NON-STEREO PHOTOGRAPHY PRECLUDES A MORE DETAILED INTERPRETATION.

THE SITE APPEARS TO BE ENCLOSED BY A SECURITY FENCE. TRACK ACTIVITY AND SCARRING INDICATE THAT CONSTRUCTION IS IN PROGRESS.

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

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LAUNCH SITE E7

SITE CONSISTS OF A SINGLE SILO UNDER CONSTRUCTION WITHIN A SHALLOW EXCAVATION. THE EXCAVATION IS SITUATED WITHIN A GRADED AREA WHICH WILL PROBABLY BE THE LOCATION OF THE T-SHAPED EARTHEN RAMPS WHICH ARE PRESENT AT THE OTHER SINGLE SILO SITES AND SHOULD APPEAR HERE AS WELL. THE LONG AXIS OF THE GRADED AREA IS ORIENTED ON A NE/SW AZIMUTH. TRACK ACTIVITY EXTENDS SOUTH AND EAST FROM THE SILO AND 2 EXCAVATIONS ARE SITUATED SW OF IT. THERE IS NO EVIDENCE OF A SECURITY FENCE AROUND THE SITE.

POSSIBLE LAUNCH SITE E8

POSSIBLE LAUNCH SITE E8 CONSISTS OF A NARROW, SLOPING EXCAVATION AND SPOIL PILES. THERE IS SOME UNIDENTIFIED ACTIVITY APPARENT IN THE DEEP END OF THE EXCAVATION AND A PROBABLE CRANE IS SITUATED NEAR THE EDGE. THIS AREA IS FIRST EVIDENT ON [REDACTED] NOV 64, AND IS NOT EVIDENT IN OCT 64. IT IS LOCATED APPROXIMATELY 6.6 NM WNW OF SITE E1.

POSSIBLE LAUNCH SITE E9

POSSIBLE LAUNCH SITE E9 CONSISTS OF A DARK, NARROW EXCAVATION AND A SPOIL PILE. ONE SMALL BUILDING IS SITUATED TO THE SE. THE SITE IS LOCATED ABOUT 8.9 NM NW OF SITE E1. THE AREA IS FIRST EVIDENT ON [REDACTED] DEC 64, AND IS NOT EVIDENT IN OCT 64. NON-STEREO PHOTOGRAPHY PRECLUDES A MORE DETAILED INTERPRETATION.

POSSIBLE LAUNCH SITE E10

POSSIBLE LAUNCH SITE E10 CONSISTS OF A SMALL CIRCULAR EXCAVATION WITH A PROBABLE CRANE AT ITS EDGE. THERE IS ONE SMALL BUILDING JUST EAST OF THE EXCAVATION AND A PROBABLE SECURITY FENCE ON THE EAST AND SOUTH SIDES OF THE SITE. THIS AREA, WHICH IS LOCATED 8.2 NM NNW OF LAUNCH SITE E1, IS FIRST EVIDENT ON [REDACTED] NOV 64, AND IS NOT EVIDENT IN OCT 64.

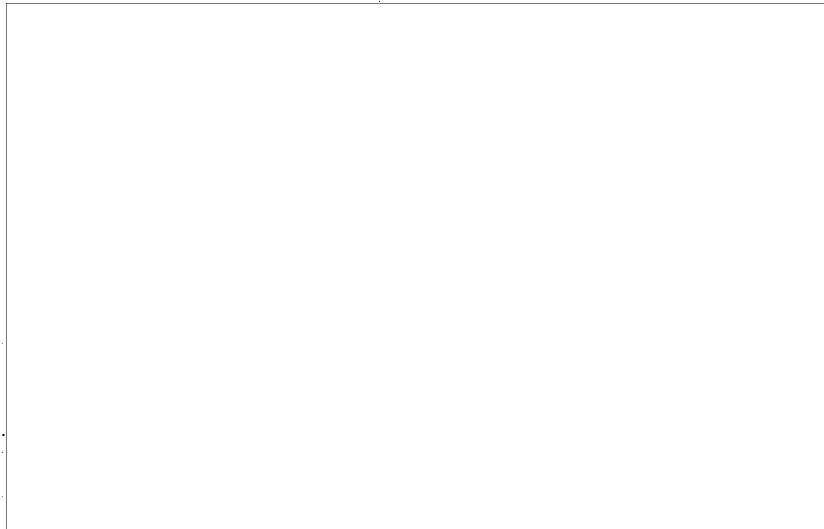
NOTE -- IN THE DISCUSSION OF THE INDIVIDUAL SITES, THE COMPASS DIRECTION (NE/SW) OF THE MOUNDED-EARTH LEVEL ACCESSSES TO THE SILOS IS APPROXIMATELY

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

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✱ 030/210 DEGREES. THIS FEATURE OF EACH SITE IS
GENERALLY CONSISTENT THROUGHOUT THE COMPLEX.



(ATTACHMENTS 1-5)

DOMBAROVSKIY ICBM LAUNCH AREA A (SITE 4) UR 5111N 05937E

LAUNCH AREA A IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY. CONSTRUCTION CONTINUES ON THE SILO WHICH IS STILL IN A MID-STAGE OF CONSTRUCTION. THE SQUARE SILO IS CLEARLY VISIBLE BUT THE SILO APERTURE IS OBSCURED BY SHADOW. A CONSTRUCTION RAMP EXTENDS OVER THE EXCAVATION TO THE SILO. THE CHARACTERISTIC EARTHEN SQUARE IS TAKING SHAPE ON THE EAST SIDE OF THE SILO EXCAVATION BUT HAS NOT BEEN LEVELED. THE RECTANGULAR EARTHEN RAMP ON THE OPPOSITE SIDE IS IN AN EARLY STAGE OF CONSTRUCTION. THREE BUILDINGS AND AT LEAST 3 VEHICLES ARE IN THE VICINITY OF THE SILO. TWO APPROXIMATELY 160-FT LONG RECTANGULAR, GABLE-ROOFED BUILDINGS ARE APPROXIMATELY 2,000 FT

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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SOUTH OF THE SILO. A SQUARE SHALLOW EXCAVATION IS APPROXIMATELY 350 FT NORTH OF 1 OF THE BUILDINGS. ONE, AND MAYBE BOTH, ARE CONNECTED TO THE BUILDINGS BY DITCHING. FOUR UNIDENTIFIED OBJECTS, POSSIBLY MOBILE, ARE JUST SOUTH OF THE 2 BUILDINGS AND HAVE CONCAVE OR HOPPER-LIKE OPENINGS IN THE TOP. AN UNIDENTIFIED OBJECT OR BUILDING APPROXIMATELY 250 FT EAST OF THE 2 LARGE BUILDINGS APPEARS TO BE EARTH-BANKED ON 2 SIDES. THERE ARE ALSO 2 EARTH-MOUNDED BUILDINGS, SEVERAL SMALL BUILDINGS, AND A SMALL SECURED AREA NEARBY.

DOMBAROVSKIY ICBM LAUNCH AREA B (SITE 3) UR 5106N 05938E

LAUNCH AREA B IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE FENCE ENCLOSING THE LAUNCH SITE AT LAUNCH AREA B IS LARGER THAN ANY OTHER IDENTIFIED AT THIS COMPLEX. CONSTRUCTION CONTINUES IN THE LAUNCH AREA AND THE SUPPORT AREA. THE SQUARE SILO IS NOT YET UP TO GROUND LEVEL AND SHADOWS PRECLUDE DETAILED INTERPRETATION. SMOKE IS RISING FROM THE SILO EXCAVATION. THE TYPICAL RECTANGULAR AND SQUARE EARTHEN AREAS REQUIRE FURTHER PREPARATION. A RECTANGULAR EXCAVATION, APPROXIMATELY 125 X 100 FT, IS APPROXIMATELY 250 FT EAST OF THE SILO EXCAVATION. THERE APPEAR TO BE FOOTINGS FOR 2 RECTANGULAR BUILDINGS JUST SOUTH OF THE SITE SECURITY FENCE. DITCHING EXTENDS FROM THE SITE TO A GROUP OF BUILDINGS APPROXIMATELY 2,000 FT TO THE SOUTH. THREE GABLE-ROOFED BUILDINGS AVERAGING APPROXIMATELY 170 X 40 FT, ARE VISIBLE. TWO APPROXIMATELY 90- X 25-FT GABLE-ROOFED STRUCTURES APPEAR TO HAVE A DOME-LIKE OBJECT AT EACH END OF THE ROOF OF BOTH STRUCTURES. A BUILDING WITH A POSSIBLE CUPOLA, AN EARTH-MOUNDED BUILDING, AND SEVERAL SMALLER STRUCTURES WHICH HAVE BEEN CAPPED OR TOPPED ARE ALSO IN THE AREA.

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

25X1

25X1

25X1

[REDACTED] DOMBAROVSKIY ICBM LAUNCH AREA C (SITE 2) UR 5101N 05941E

LAUNCH AREA C IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. DETAILS WITHIN THE SILO EXCAVATION CANNOT BE DISCERNED BUT A SILO HAS BEEN CONFIRMED IN EARLIER PHOTO COVERAGE. THE TYPICAL, PREPARED EARTHEN MOUNDS ON 2 SIDES OF THE SILO EXCAVATION REQUIRE ADDITIONAL GRADING. TWO SMALL BUILDINGS AND 3 PROBABLE VEHICLES ARE NEAR THE SILO. A SNOW-COVERED GROUND SCAR EXTENDS NE FROM THE LAUNCH SITE AND TERMINATES NEAR A GROUP OF BUILDINGS COMPOSED OF 2 GABLE-ROOFED BUILDINGS, APPROXIMATELY 165 AND 125 FT LONG, 1 EARTH-MOUNDED BUILDING, AND SEVERAL OTHER BUILDINGS. A DITCH LEADS FROM THE 165-FT BUILDING TO A SMALL SHALLOW EXCAVATION.

25X1

[REDACTED] DOMBAROVSKIY ICBM LAUNCH AREA D (SITE 1) UR 5058N 05932E

25X1

LAUNCH AREA D IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY. THE SILO EXCAVATION CONTAINS A LARGE AMOUNT OF SNOW. THERE HAS BEEN NO TRACK ACTIVITY WITHIN THE LAUNCH SITE SINCE THE LAST SNOWFALL. THE SILO APPEARS CIRCULAR AND IS NOT UP TO GROUND LEVEL. IT APPEARS TO HAVE A PROTECTIVE COVERING. THE CHARACTERISTIC EARTHEN SQUARE IS NEARLY COMPLETE BUT THE RECTANGLE REQUIRES FURTHER GRADING. TWO BUILDINGS, APPROXIMATELY 175 X 45 FT, ARE APPROXIMATELY 200 FT NE OF THE LAUNCH SITE. TWO STRUCTURES, NEARLY IDENTICAL TO THE 2 DESCRIBED AT LAUNCH AREA B, A BURIED BUILDING, AND SEVERAL OTHER SMALL BUILDINGS ARE IN THE IMMEDIATE VICINITY.

25X1

[REDACTED] DOMBAROVSKIY ICBM LAUNCH AREA E (SITE 6) UR 5104N 05928E

25X1

LAUNCH AREA E IS COVERED ON GOOD QUALITY

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

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STEREO PHOTOGRAPHY. THIS SITE IS IN AN EARLY STAGE OF CONSTRUCTION. NO SILO CAN BE IDENTIFIED IN THE EXCAVATION WHICH HAS NOT BEEN COMPLETED AT 1 CORNER. THE TYPICAL EARTHEN SQUARE IS UNDER CONSTRUCTION AND THE RECTANGLE APPEARS COMPLETELY GRADED. TRACK ACTIVITY IN THE SNOW LEADS TO A BUILDING WITHIN THE SITE BUT THERE IS NO TRACK ACTIVITY NEAR THE EXCAVATION. SCARRING IS VISIBLE IN THE SNOW JUST OUTSIDE THE SW CORNER OF THE SECURITY FENCE. A TRUCK IS IN MOTION BETWEEN THE LAUNCH SITE AND THE GROUP OF BUILDINGS APPROXIMATELY 2,000 FT TO THE SOUTH. ONE APPROXIMATELY 140-X 40-FT BUILDING AND FOOTINGS FOR A SECOND SLIGHTLY SHORTER BUILDING ARE VISIBLE. AN EARTH-MOUNDED BUILDING, AN UNIDENTIFIED STRUCTURE, 4 SMALLER BUILDINGS, AND 4 BUILDINGS OR STRUCTURES IN A LINE (3 WITH A SMALL DOME-LIKE OBJECT ON THE ROOF) ARE ALSO IN THE AREA.

EMBA MISSILE-ASSOCIATED INSTALLATION UR 4835N 05804E

THE FOLLOWING PORTIONS OF THE INSTALLATION ARE COVERED ON CLEAR PHOTOGRAPHY. EMBA AIRFIELD AND SUPPORT AREA A ARE COVERED ON NON-STEREO PHOTOGRAPHY. THE OPERATIONAL SUPPORT AREA, THE ELECTRONICS SITE (FORMERLY CALLED MISSILE TRACKING SITE OR POSSIBLE NEAR SPACE TRACKING AND TELEMETRY RECEIVING FACILITY (SEE , THE LAUNCH AREA (SEE , SUPPORT AREA B, AND INSTRUMENTATION SITES 1, 2 (SEE , 3, 4, AND 11 ARE COVERED ON STEREO PHOTOGRAPHY. GROUND SNOW COVER LIMITS INTERPRETATION.

CONSTRUCTION CONTINUES ON THE OPERATIONAL SUPPORT AREA. THE FENCE LINE HAS BEEN EXTENDED TO THE NORTH AND NOW ENCLOSES A MOTOR POOL CONTAINING AT LEAST 300 VEHICLES/PIECES OF EQUIPMENT AND A LARGE BUILDING, NEW SINCE , NOV 64, UNDER CONSTRUCTION. ONE BUILDING IN THE SOUTHWESTERN PORTION OF THE ORIGINAL OPERATIONAL SUPPORT AREA

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HAS BEEN COMPLETED SINCE [REDACTED] AUG 64. THE CONSTRUCTION ACTIVITY BORDERING THE WESTERN SIDE OF THE ORIGINAL OPERATIONAL SUPPORT AREA IS NOW IDENTIFIED AS A POSSIBLE INSTRUMENTATION AREA. THIS AREA IS FENCED AND APPEARS TO BE STILL UNDER CONSTRUCTION. IT CONTAINS 8 RECTANGULAR AREAS, EACH HAVING 3 UNIDENTIFIED OBJECTS WHICH MAY BE INSTRUMENTATION BASES. GROUND SCARS CONNECT EACH OF THE 8 RECTANGULAR AREAS TO A BUILDING UNDER CONSTRUCTION NEAR THE CENTER OF THE AREA.

NO APPARENT CHANGE IN THE INSTRUMENTATION SITES.

(ATTACHMENT 6)

[REDACTED]
[REDACTED] EMBA MSLE ASSOC INSTLN LAUNCH AREA UR 4832N 05759E

MISSION 4015 PROVIDES THE BEST COVERAGE TO DATE OF THE LAUNCH COMPLEX AT THE EMBA MISSILE ASSOCIATED INSTALLATION.

THE DOUBLE-FENCED LAUNCH AREA HAS A GUARD TOWER AT EACH CORNER AND A SECURITY BUILDING AT THE ENTRANCE. A SMALLER BUILDING IS APPROXIMATELY 350 FT NORTH OF THE SECURITY BUILDING AND OUTSIDE THE FENCE. A VEHICLE STORAGE SHED, 2 SMALLER SUPPORT BUILDINGS, AND AN EARTH-MOUNDED CONTROL BUNKER, ON WHICH 2 UNIDENTIFIED OBJECTS ARE SITUATED, ARE ALSO WITHIN THE LAUNCH AREA. THE CONTROL BUNKER IS CONNECTED BY A BURIED CONDUIT TO THE 2 SNOW-COVERED PADS. A CLEARED HARDSTAND IN FRONT OF THE CONTROL BUNKER CONTAINS AT LEAST 9 VEHICLES/PIECES OF EQUIPMENT. A TOKEN-TYPE RADAR, 5 ELECTRONICS VANS, AND A UNIDENTIFIED PIECE OF ELECTRONICS EQUIPMENT ARE IN THE NE CORNER OF THE LAUNCH AREA. EIGHTEEN VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN AN L-SHAPED PATTERN NNW OF THE CONTROL BUNKER. A PROBABLE CALIBRATION TOWER IS IN THE SE CORNER OF THE LAUNCH AREA. WITHIN THE INNER SECURITY FENCE IN THE NW CORNER ARE 2 PROBABLE COMMUNICATIONS VEHICLES AND A POSSIBLE OPTICAL TRACKING POSITION. TWO VAN-MOUNTED ANTENNAS, 1 WITH AN ASSOCIATED GENERATOR VAN, ARE POSITIONED ALONG THE WESTERN FENCE. APPROXIMATELY

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30 OTHER VEHICLES/PIECES OF EQUIPMENT, INCLUDING 1 ON THE CENTER ROAD, ARE SCATTERED THROUGHOUT THE LAUNCH AREA.

A DOUBLE-FENCED SUPPORT AREA APPROXIMATELY 1,800 FT EAST OF THE LAUNCH AREA CONTAINS A SECURITY BUILDING, 2 SMALL SUPPORT BUILDINGS, A GABLE-ROOFED BUILDING, AND A FLAT-ROOFED BUILDING WITH AN ADJACENT STACK. AN ADDITIONAL SUPPORT AREA APPROXIMATELY 3,100 FT SE OF THE LAUNCH AREA IS ALSO DOUBLE-FENCED. IN ADDITION TO THE GUARD TOWERS IN THE NW AND SE CORNERS, PROBABLE LIGHT STANDARDS ARE ALSO PLACED ALONG THE FENCE LINE. WITHIN THE SECURITY FENCE ARE 4 BUNKERS, 2 ADDITIONAL BUNKERS WITH PROBABLE UNDERGROUND ENTRANCES, A LARGER BUNKER UNDER CONSTRUCTION WITH AN UNDERGROUND ENTRANCE, AND A DRIVE-IN BUILDING WHICH APPEARS BUNKERED ON ONLY 2 SIDES. TWO PREVIOUSLY OBSERVED HARDSTANDS WHICH ARE SNOW COVERED AND AN UNIDENTIFIED T-SHAPED STRUCTURE ARE ALSO WITHIN THE FENCE. THIS AREA MAY HAVE A STORAGE FUNCTION.

(ATTACHMENT 7)

BONUS OMSK SSM STORAGE SITE UR 5457N 07328E

A RAIL-SERVED, SECURED DOUBLE-FENCED AREA, 1,800 X 1,800 FT, WITHIN AN OUTER DOUBLE-FENCED AREA, 4,150 X 2,700 FT, IS LOCATED 1.5 NM EAST OF OMSK AIRCRAFT PLANT 166. THE SITE CONTAINS 9 PROBABLE ADMINISTRATION BUILDINGS AND 18 PROBABLE STORAGE/SUPPORT BUILDINGS, 1 SUSPECT CANVAS-COVERED ICBM, APPROXIMATELY 94 FT IN LENGTH, 2 POSSIBLE SHADDOCK VEHICLES APPROXIMATELY 45 FT LONG, 4 SUSPECT SHADDOCK-TYPE VEHICLES APPROXIMATELY 14 SUSPECT MISSILE TRANSPORTERS RANGING FROM 50 TO 60 FT IN LENGTH WITHOUT PRIME MOVERS, AND ONE SUSPECT MISSILE TRANSPORTER WITH AN OVERALL LENGTH OF 75 FT INCLUDING PRIME MOVER. ALL OF THE MISSILE TRANSPORTERS ARE CANVAS-COVERED. ADDITIONAL VEHICLES INCLUDE 62 PROBABLE VAN TRUCKS AND 26 PROBABLE VAN TRAILERS

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[REDACTED]
[REDACTED]
[REDACTED]
AT LEAST 64 LARGE CRATES, [REDACTED]
ARE LOCATED IN THE SE CORNER OF THE SITE AND
143 CRATES (RANGING IN SIZE FROM [REDACTED]
[REDACTED] AND 7 ROWS OF NUMEROUS SMALLER
CRATES ARE LOCATED JUST TO THE NORTH. NUMEROUS
UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE
VISIBLE THROUGHOUT THE AREA.

THERE ARE 4 PROBABLE GUARD TOWERS AT THE
CORNERS OF THE INNER SECURED AREA. THE OUTER SECURED
AREA CONTAINS 1 L-SHAPED ADMINISTRATION BUILDING,
4 SUPPORT BUILDINGS, AND APPROXIMATELY
12 UNIDENTIFIED CRATES, POSSIBLY ON
FLAT-BED TRAILERS.

(ATTACHMENT 8)
[REDACTED]

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[REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

**Nuclear
Energy**

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**Electronics/
Communications**

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ELECTRONICS/COMMUNICATIONS

BONUS NERCHINSK TALL KING RADAR SITE UR 5200N 11636E

A NEWLY IDENTIFIED TALL KING RADAR SITE IS LOCATED 1 NM NORTH OF NERCHINSK ORDNANCE DEPOT EAST. THE SITE CONTAINS 1 TALL KING RADAR, 1 CONTROL BUILDING, AND 2 SUPPORT BUILDINGS. THE ENTIRE SITE IS SURROUNDED BY A SINGLE SECURITY FENCE.

BONUS KYZYL TALL KING RADAR SITE UR 5139N 09422E

A NEWLY IDENTIFIED TALL KING RADAR SITE IS LOCATED 4.5 NM SW OF KYZYL. THE SITE CONTAINS 1 TALL KING RADAR, 1 CONTROL BUILDING, AND 2 SUPPORT BUILDINGS. THE ENTIRE SITE IS SURROUNDED BY A SINGLE SECURITY FENCE.

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25X1

25X1

25X1

25X1

25X1

Index

TOP SECRET CHESS RUFF

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INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST BY TARGET NUMBER OF ALL COMOR TARGETS OBSERVED DURING THE SCAN OF MISSION 4015. THE ROMAN NUMERAL UNDER THE OAK COLUMN INDICATES THE PART OF OAK 4015 IN WHICH THE TARGET WAS REPORTED.

| COMOR | INSTALLATION NAME | CTY | COORDINATES | OAK |
|-------|---|-----|--------------|-----|
| | YURYA ICBM LAUNCH AREA C (SITE 3) | UR | 5912N 04925E | VI |
| | YURYA ICBM LAUNCH AREA D (SITE 4) | UR | 5916N 04922E | VI |
| | YURYA ICBM LAUNCH AREA E (SITE 5) | UR | 5923N 04917E | VI |
| | YURYA ICBM LAUNCH AREA F (SITE 7) | UR | 5921N 04914E | VI |
| | YURYA ICBM LAUNCH AREA I (SITE 11) | UR | 5920N 04925E | VI |
| | YURYA ICBM LAUNCH AREA K (SITE 10) | UR | 5913N 04918E | VI |
| | VERKHNYAYA SALDA ICBM COMPLEX | UR | 5802N 06023E | V |
| | VERKHNYAYA SALDA ICBM LNCH AREA E SITE 5 | UR | 5813N 06054E | IV |
| | VERKHNYAYA SALDA ICBM LNCH AREA F SITE 7 | UR | 5814N 06040E | IV |
| | VERKHNYAYA SALDA ICBM LNCH AREA G SITE 8 | UR | 5813N 06049E | IV |
| | TYURATAM LCH CPLX G (SITES 7, 11, 12, 18, 19) | UR | 4604N 06256E | V |
| | TYURATAM LAUNCH COMPLEX K (SITE 13) | UR | 4602N 06303E | V |
| | SVOBODNYI ICBM LAUNCH AREA A (SITE 3) | UR | 5154N 12810E | IV |
| | SVOBODNYI ICBM LAUNCH AREA D (SITE 4) | UR | 5158N 12807E | IV |
| | SVOBODNYI ICBM LAUNCH AREA F (SITE 5) | UR | 5151N 12813E | IV |
| | SVOBODNYI ICBM LAUNCH AREA H (SITE 8) | UR | 5202N 12805E | IV |
| | OMSK ICBM LAUNCH AREA A (SITE 1) | UR | 5509N 07337E | V |
| | PERM ICBM LAUNCH AREA A (SITE 1) | UR | 5741N 05611E | VI |
| | PERM ICBM LAUNCH AREA B (SITE 2) | UR | 5743N 05554E | VI |
| | PERM ICBM LAUNCH AREA D (SITE 6) | UR | 5744N 05600E | VI |
| | PERM ICBM LAUNCH AREA F (SITE 4) | UR | 5741N 05604E | VI |
| | UZHUR ICBM COMPLEX | UR | 5517N 08949E | III |
| | UZHUR ICBM LAUNCH AREA C (SITE 3) | UR | 5520N 08933E | III |
| | UZHUR ICBM LAUNCH AREA D (SITE 4) | UR | 5517N 08926E | IV |
| | UZHUR ICBM LAUNCH AREA F (SITE 6) | UR | 5525N 08939E | IV |
| | KOZELSK ICBM LAUNCH AREA A (SITE 3) | UR | 5354N 03544E | V |
| | KOZELSK ICBM LAUNCH AREA D (SITE 4) | UR | 5353N 03551E | V |
| | OLOVYANNAYA ICBM LAUNCH AREA A (SITE 1) | UR | 5054N 11548E | VI |
| | OLOVYANNAYA ICBM LAUNCH AREA B (SITE 2) | UR | 5055N 11544E | VI |
| | OLOVYANNAYA ICBM LAUNCH AREA C (SITE 3) | UR | 5101N 11558E | VI |
| | OLOVYANNAYA ICBM LNCH GRP D (SITES 4-13) | UR | 5104N 11604E | VI |
| | DOMBAROVSKIY ICBM LAUNCH AREA A (SITE 4) | UR | 5111N 05937E | VI |
| | DOMBAROVSKIY ICBM LAUNCH AREA B (SITE 3) | UR | 5106N 05938E | VI |

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| DOMBAROVSKIY ICBM LAUNCH AREA C (SITE 2) | UR 5101N 05941E VI |
| DOMBAROVSKIY ICBM LAUNCH AREA D (SITE 1) | UR 5058N 05932E VI |
| DOMBAROVSKIY ICBM LAUNCH AREA E (SITE 6) | UR 5104N 05928E VI |
| ALEYSK ICBM LAUNCH AREA A (SITE 1) | UR 5227N 08235E IV |
| KARTALY ICBM LAUNCH AREA A (SITE 1) | UR 5301N 06026E V |
| KARTALY ICBM LAUNCH AREA B (SITE 2) | UR 5256N 06031E V |
| KARTALY ICBM LAUNCH AREA C (SITE 3) | UR 5255N 06024E V |
| KARTALY ICBM LAUNCH AREA D (SITE 4) | UR 5251N 06027E V |
| IMENI GASTELLO ICBM LNCH AREA A (SITE 1) | UR 5103N 06606E V |
| IMENI GASTELLO ICBM LNCH AREA B (SITE 2) | UR 5106N 06602E V |
| IMENI GASTELLO ICBM LNCH AREA C (SITE 3) | UR 5110N 06606E V |
| IMENI GASTELLO ICBM LNCH AREA D (SITE 4) | UR 5107N 06613E V |
| IMENI GASTELLO ICBM LNCH AREA E (SITE 5) | UR 5113N 06613E V |
| IMENI GASTELLO ICBM LNCH AREA F (SITE 6) | UR 5113N 06605E V |
| LYALICH MRBM LAUNCH SITE | UR 4402N 13226E II |
| MUKACHEVO MRBM LAUNCH SITE 1 | UR 4819N 02231E I |
| MUKACHEVO MRBM LAUNCH SITE 2 | UR 4819N 02237E I |
| IECAVA MRBM LAUNCH SITE 1 | UR 5635N 02403E II |
| IECAVA MRBM LAUNCH SITE 2 | UR 5639N 02408E III |
| ANASTASYEVKA MRBM LAUNCH SITE 1 | UR 4835N 13538E III |
| ANASTASYEVKA MRBM LAUNCH SITE 2 | UR 4836N 13541E III |
| KROLEVETS IRBM LAUNCH SITE 2 | UR 5140N 03329E I |
| ROZHDESTVENKA MRBM LAUNCH SITE | UR 5457N 13343E II |
| KALNIK IRBM LAUNCH SITE | UR 4859N 02922E I |
| ANASTASYEVKA FIXED FIELD MRBM SITE | UR 4832N 13531E II |
| BEREZA IRBM LAUNCH SITE | UR 5143N 03343E V |
| KREMOVO MRBM LAUNCH SITE | UR 4401N 13220E II |
| JELGAVA FIXED FIELD MRBM SITE | UR 5638N 02352E I |
| KAPUSTIN YAR SAM LAUNCH COMPLEX | UR 4848N 04545E V |
| SARY-SHAGAN AMM LNCH CMPLX A (SITE 2830) | UR 4623N 07252E V |
| SARY-SHAGAN AMM LNCH COMPLX B (SITE 1814) | UR 4559N 07233E III |
| SARY-SHAGAN POSS INSTRUMENTATION SITE 15 | UR 4722N 06725E II |
| BRATSK POSSIBLE ELECTRONICS SITE | UR 5642N 10116E II |
| UKA (KAMCHATKA PEN) HEN EGG | UR 5756N 16201E II |
| EMBA MISSILE-ASSOCIATED INSTALLATION | UR 4835N 05804E VI |
| EMBA MSLE ASSOC INSTLN-SUPPORT AREA A | UR 4846N 05803E V |
| EMBA MSLE ASSOC INSTLN LAUNCH AREA | UR 4832N 05759E VI |
| EMBA CONTROL CENTER INST SITE 2 | UR 4832N 05802E V |
| PERM ARMS PLANT MOTOVILIKHA MOLOTOV 172 | UR 5802N 05617E III |
| GORKIY ARMT PLT NOVOYE SORMOVO/STALIN 92 | UR 5620N 04354E II |
| KUYBYSHEV AIRFRAME PLANT STALIN 1 | UR 5313N 05018E II |
| OMSK AIRCRAFT ENGINE PLANT BARANOVA 29 | UR 5457N 07326E I |
| PERM ROCKET ENGINE TEST FACILITY | UR 5801N 05634E III |
| SARATOV AIRFRAME PLANT 292 | UR 5130N 04557E II |
| KUYBYSHEV EXPMT AC ENG PLT KR GLINKA 2 | UR 5321N 05013E I |
| KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24 | UR 5312N 05017E I |

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|---|--------------------|
| STERLITAMAK STATIC TEST FACILITY | UR 5341N 05558EIII |
| PERM AIRCRAFT ENGINE PLANT STALIN 19 | UR 5759N 05615EIII |
| BIYSK STATIC TEST FACILITY | UR 5229N 08507E I |
| KAMENSK-SHAKHTINSKIY STATIC TEST FAC | UR 4819N 04016E II |
| TASIKMALAJA ROCKET PRODUCTION FACILITY | ID 0720S 10812E IV |
| UST-UKHTA SUSP MISSILE PRODUCTION FAC | UR 6334N 05342E II |
| VERKHNYAYA SALDA STATIC TEST FACILITY | UR 5810N 06057E I |
| PING-FENG-SHE-CHENG TANK PLANT | CH 4039N 10954E V |
| CHIN-HSI CRUISE MISSILE LAUNCH SITE | CH 4042N 12052E II |
| VELSK SUSPECT SSM AREA | UR 6102N 04231E II |
| SEVERODVINSK NAVAL BASE AND SHIPYARD 402 | UR 6434N 03949E II |
| KOMSOMOLSK SHIPYARD AMUR 199 | UR 5033N 13702EIII |
| PETROPAVLOVSK-KAMCHATSKIY NAVAL MSL STOR | UR 5256N 15823EIII |
| PETROPAVLOVSK-KAMCHATSKIY NVL MSL SUPT | UR 5257N 15825EIII |
| PETROPAVLOVSK-KAMCHATSKIY NVL B SELDEVAYAU | UR 5253N 15825EIII |
| SEVASTOPOL PROBABLE NAVAL MSL STOR FAC | UR 4436N 03340EIII |
| PETROVKA SHIPYARD | UR 4307N 13220E II |
| DUNAY PROBABLE NAVAL MISSILE STORAGE | UR 4256N 13220EIII |
| MOSCOW SAM SITE E05-1 | UR 5614N 03835E IV |
| MOSCOW SAM SITE E24-1 | UR 5521N 03629E IV |
| DAHSHUR SAM TRAINING AREA | EG 2948N 03111E II |
| PETROPAVLOVSK-KAMCHATSKIY SAM SITE B28A-2UR | UR 5302N 15818E II |
| MOSCOW SAM SITE C16-1 | UR 5522N 03758E I |
| CAIRO SAM SITE B17-2 | EG 2946N 03121E V |
| CAIRO SAM SITE B04-2 | EG 3020N 03128E IV |
| CAIRO SAM SITE B33-2 | EG 3017N 03107E V |
| CAIRO SAM SITE B21-2 | EG 2948N 03108E V |
| JADIDAH SUSPECT SRBM STORAGE AREA | EG 3004N 03119E IV |
| ENGELS AIRFIELD | UR 5129N 04611E I |
| BELAYA TSEKOV AIRFIELD | UR 4947N 03001E I |
| ZAVITINSK AIRFIELD NORTHEAST | UR 5011N 12931EIII |
| ARKHANGELSK/KHOLM AIRFIELD | UR 6423N 04043E I |
| ROMANOVKA AIRFIELD WEST | UR 4314N 13219E I |
| OMSK AIRCRAFT PLANT 166 | UR 5458N 07326E IV |
| GORKIY/SOROMOVO AIRFIELD | UR 5619N 04348EIII |
| GORKIY AIRFRAME PLANT ORDZHONIKIDZE 21 | UR 5620N 04352EIII |
| KOMSOMOLSK AIRFRAME PLT ORDZHONIKIDZE 126UR | UR 5036N 13705EIII |
| ULAN-UDE AIRCRAFT ASSEMBLY PLANT 99 | UR 5151N 10744EIII |
| FORT SHEVCHENKO AIRFIELD | UR 4435N 05020E II |
| KUYBYSHEV AIRFRAME PLANT LENIN 18 | UR 5313N 05019EIII |
| CHI-NAN AIRFIELD | CH 3641N 11655E I |
| CHIANG-WAN AIRFIELD | CH 3119N 12130E II |
| CHIN-HSI AIRFIELD | CH 4045N 12052E I |
| CHIN-CHOU AIRFIELD WEST | CH 4105N 12103E I |
| HSING-CHENG AIRFIELD | CH 4036N 12043E I |
| HUNG-CHIAO AIRFIELD | CH 3112N 12120EIII |

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KU-TIEN-TZU AIRFIELD
 LU-LIANG AIRFIELD
 CHI-CHI-HA-ERH AIRFIELD SOUTH
 LUNG-HUA AIRFIELD
 PING-FANG-TIEN AIRFIELD
 TA-CHANG AIRFIELD
 TANG-KUAN-TUN AIRFIELD
 TSANG-HSIEN AIRFIELD
 YA-MEN-TUN AIRFIELD
 NEN-CHIANG AIRFIELD NORTH
 CHING-SHUI-HO AIRFIELD
 CAMILO CIENFUEGOS AIRFIELD
 UIJU AIRFIELD
 PUKCHANG-NI AIRFIELD
 SAAMCHAM AIRFIELD
 HOEMUN-NI AIRFIELD
 PYONG-NI AIRFIELD
 KENDARI AIRFIELD
 TASIKMALAJA AIRFIELD
 TUBAN AIRFIELD
 INSHAS AR RAML AIRFIELD
 KIRKUK MILITARY AIRFIELD
 AL HUDAYDAH AIRFIELD
 NAJIRAN AIRFIELD
 OSINOVKA AIRFIELD
 PETROPAVLOVSK/YELIZOVO AIRFIELD
 KACHA AIRFIELD
 BUKHTA SUKHODOL SEAPLANE STATION
 TUNG-FENG AIRFIELD
 TIEN-CHING AIRFIELD
 VELIKAYA KEMA AIRFIELD
 SMIRNYKH AIRFIELD
 Khabarovsk/BLAGODATNOYE AIRFIELD
 PROVIDENIYA/URELIK AIRFIELD
 RIGA/RUMBULA AIRFIELD
 VERINO AIRFIELD
 MUKACHEVO AIRFIELD
 TUNG-SHENG AIRFIELD
 MONCHEGORSK AIRFIELD
 KRASNODAR AIRFIELD
 TASHKENT AIRFIELD
 KUBINKA AIRFIELD
 ROSTOV AIRFIELD EAST
 SLUPSK AIRFIELD
 ARKHANGELSK AIRFIELD
 MORSHANSK AIRFIELD

CH 4359N 12623E V
 CH 2459N 10338E I
 CH 4718N 12356E II
 CH 3110N 12127E III
 CH 4535N 12639E III
 CH 3119N 12125E III
 CH 3847N 11704E I
 CH 3824N 11655E I
 CH 4714N 12355E I
 CH 4914N 12521E I
 CH 3944N 11310E IV
 CU 2229N 07955W I
 KN 4009N 12430E III
 KN 3930N 12558E III
 KN 3945N 12554E III
 KN 4125N 12939E II
 KN 3924N 12554E III
 ID 0405S 12225E IV
 ID 0721S 10815E III
 ID 0845S 11510E V
 EG 3019N 03127E III
 IQ 3528N 04421E III
 YE 1449N 04257E IV
 SR 1737N 04424E IV
 UR 4401N 13213E II
 UR 5310N 15827E IV
 UR 4447N 03333E III
 UR 4310N 13220E II
 CH 4239N 12530E III
 CH 3907N 11721E I
 UR 4530N 13711E IV
 UR 4944N 14252E IV
 UR 4824N 13525E IV
 UR 6423N 17315W III
 UR 5653N 02414E I
 UR 4801N 13506E IV
 UR 4824N 02242E II
 CH 3949N 10959E II
 UR 6758N 03301E III
 UR 4505N 03856E III
 UR 4118N 06920E IV
 UR 5537N 03639E I
 UR 4715N 03948E II
 PO 5429N 01707E I
 UR 6426N 04025E I
 UR 5326N 04143E I

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YELETS AIRFIELD WEST
 DNEPROPETROVSK/VOLOSHKOYE AIRFIELD
 NEBIT DAG AIRFIELD
 DZHEBEL AIRFIELD
 PERM AIRFIELD SOUTHWEST
 OMSK AIRFIELD SOUTHWEST
 KUPINO AIRFIELD
 BRYANSK AIRFIELD
 SARATOV AIRFIELD WEST
 KAMYSHIN AIRFIELD NORTHWEST
 KUYBYSHEV/KRYAZH AIRFIELD
 OMSK AIRFIELD EAST
 RAS BANAS AIRFIELD
 BASOKO AIRFIELD
 GOMA AIRFIELD
 NING-MING AIRFIELD UNDER CONSTRUCTION

UR 5238N 03824E I
 UR 4821N 03505E I
 UR 3928N 05421E IV
 UR 3940N 05411E IV
 UR 5755N 05602E I
 UR 5457N 07319E V
 UR 5421N 07722E IV
 UR 5316N 03420E I
 UR 5132N 04551E I
 UR 5012N 04513E I
 UR 5307N 05006E I
 UR 5458N 07333E IV
 EG 2358N 03528E III
 CX 0115N 02338E III
 CX 0140S 02915E IV
 CH 2207N 10707E IV

SHANG-HAI NAVAL BASE & SHIPYARD KIANGNAN CH 3112N 12128E III
 HSIA-MEN NAVAL BASE & PORT FACILITIES CH 2427N 11805E III
 TA-HSIEH TAO NAVAL BASE CH 2953N 12157E III
 CHONGJIN NAVAL BASE KN 4146N 12949E III
 PADANG PORT FACILITIES ID 0059S 10022E IV
 TJIREBON PORT FACILITIES ID 0643S 10835E III
 CHOU-SHAN NAVAL BASE AND SHIPYARD CH 3000N 12206E III
 SHANG-HAI NAVAL BASE WU-SUNG CH 3123N 12130E III
 LIEPAJA NAVAL BASE AND SHIPYARD UR 5633N 02102E III
 BANES NAVAL BASE CU 2055N 07542W I
 SANTIAGO DE CUBA NAVAL BASE AND PORT CU 2001N 07550W II
 LINGKAS PORT FACILITIES ID 0317N 11736E III
 MAGADAN SHIP REPAIR YARD UR 5932N 15046E III
 GORKIY SHIPYARD HEAVY EQUIPMENT PLANT UR 5622N 04352E IV
 GORKIY SHIP REPAIR YARD 25 OKT UR 5617N 04357E III
 SEVASTOPOL NVL BASE&SHPYD SEVMORZAVOD 497UR 4436N 03332E III

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TERNATE PORT FACILITIES
 AL HUDAYDAH PORT FACILITIES
 BAUTINO PORT FACILITIES
 OSETOVO PORT FACILITIES LENA RIVER
 AKETI PORT FACILITIES
 GOMA PORT FACILITIES

ID 0047N 12723EIII
 YE 1450N 04257EIII
 UR 4432N 05016EIII
 UR 5646N 10541EIII
 CX 0242N 02350EIII
 CX 0142S 02915EIII

KHUTOR ESV TRACKING STATION
 BRYANSK AIR DEFENSE ZONE HQ
 BRYANSK AIR DEFENSE SECTOR HQS
 TYURATAM INSTRUMENTATION SITE
 GORKIY AD SECTOR HEADQUARTERS STRIGINO
 EMBA MISSILE TRACKING FACILITY
 APUKA TALL KING RADAR SEARCH
 TA-TUNG VLF RADIO COMMUNICATIONS STATION
 NES RADAR SITE
 POKROVSK AIR WARNING RADAR SITE
 PU-ERH POSSIBLE MILITARY BARRACKS
 TUNG-AN MILITARY AREAS
 PU-LAN ARMY BARRACKS
 TSO-NA BARRACKS AREA
 PYONGYANG/SA-DONG AREA MIL INSTALLATION
 MENG-HAI ARMY BKS AND STGE DEPOT SOUTH
 CHANGRA BARRACKS AREA
 MUKACHEVO ARMY BARRACKS WSW
 KUYBYSHEV ARMY BARRACKS
 PERM ARMY BARRACKS SOUTH
 VOLNOYE ARMY BKS & TRNG AREA SAMARA R
 MAN-CHOU-LI MILITARY INSTALLATION
 DOS CAMINOS MILITARY CAMP
 KA-ERH-MU ARMY GENERAL SUPPLY DEPOT
 LE ARMY BARRACKS
 TSO-KUNG ARMY BARRACKS
 HSUEH-PA ARMY BARRACKS
 I-HSIEN BARRACKS
 I-HSIEN ARMY BARRACKS SOUTH
 I-HSIEN ARMY BARRACKS SOUTHWEST
 TA-TUNG ARMY BARRACKS NORTHWEST

UR 5306N 15820EIII
 UR 5314N 03408EIII
 UR 5315N 03409EIII
 UR 5049N 06841E I
 UR 5614N 04349E II
 UR 4836N 05809E II
 UR 6027N 16935E II
 CH 3957N 11316EIII
 UR 6636N 04440E I
 UR 6129N 12906E II
 CH 2305N 10103EIII
 CH 2446N 11814E IV
 TI 3015N 08110EIII
 TI 2802N 09154E IV
 KN 3900N 12550E V
 CH 2158N 10028E IV
 TI 3145N 09842E IV
 UR 4826N 02242E II
 UR 5313N 05009EIII
 UR 5800N 05616E II
 UR 4844N 03522EIII
 CH 4935N 11726E II
 CU 2014N 07547W I
 CH 3627N 09455EIII
 TI 2747N 09149E IV
 TI 2956N 09748E IV
 TI 3000N 09355E IV
 CH 4122N 12114E V
 CH 4128N 12112E V
 CH 4131N 12112E V
 CH 4007N 11316E II

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| | | |
|---|-----------------|-----|
| ALEKSANDROVSK-SAKHALINSKIY ARMY BKS DE | UR 5051N 14238E | II |
| ANIVA ARMY BARRACKS BLAGOVESHCHENSKOYE | UR 4645N 14230E | IV |
| ANIVA ARMY BARRACKS NORTHWEST | UR 4643N 14231E | IV |
| ANIVA ARMY BARRACKS RR STATION NORTHWEST | UR 4642N 14231E | IV |
| BELAYA TSEKOV ARMY BARRACKS ROSS | UR 4949N 03006E | II |
| BELAYA TSEKOV ARMY BARRACKS NORTHWEST | UR 4950N 03004E | IV |
| BIKIN ARMY BARRACKS AND AMMO DEPOT SE | UR 4648N 13416E | IV |
| GORKIY ARMY BARRACKS SOUTHEAST | UR 5617N 04359E | II |
| GORKIY ARMY BARRACKS OKHA RIVER EAST | UR 5618N 04358E | II |
| GORKIY HEADQUARTERS BKS AND SCH KREMLIN | UR 5619N 04400E | II |
| MUKACHEVO ARMY BARRACKS SOUTHWEST | UR 4826N 02242E | II |
| NERCHINSK ARMY BARRACKS | UR 5159N 11636E | II |
| NIKOLAYEVSK TROOP BARRACKS WEST | UR 5308N 14042E | IV |
| NIKOPOL ARMY BARRACKS | UR 4734N 03421E | II |
| NIZHNEUDINSK ARMY BARRACKS | UR 5454N 09903E | II |
| TASHKENT ARMY BARRACKS AND OCS | UR 4118N 06915E | IV |
| TASHKENT ARMY BARRACKS SOUTHWEST | UR 4115N 06912E | IV |
| TASHKENT GARRISON HEADQUARTERS AND BKS | UR 4117N 06916E | IV |
| TOTSKOYE ARMY BARRACKS | UR 5230N 05247E | II |
| TOTSKOYE ARMY BARRACKS NORTHWEST | UR 5232N 05249E | III |
| ULAN-UDE ARMY BARRACKS UDA RIVER SOUTH | UR 5149N 10744E | IV |
| ULAN-UDE ARMY BARRACKS DIVIZIONAYA | UR 5154N 10731E | V |
| KAMENSK-SHAKHTINSKIY ARMY BARRACKS SOUTH | UR 4819N 04015E | II |
| KAPUSTIN YAR ARMY BARRACKS | UR 4835N 04543E | III |
| YUZHNO-SAKHALINSK BKS BOLSHAYA YELAN | UR 4655N 14244E | IV |
| YUZHNO-SAKHALINSK BARRACKS KHRISTOFOROVKAUR | UR 4653N 14246E | IV |
| YUZHNO-SAKHALINSK BARRACKS LISTVENICHNOYE | UR 4652N 14246E | IV |
| YUZHNO-SAKHALINSK BARRACKS USPENSKOYE | UR 4651N 14234E | IV |
| KORSAKOV ARMY BARRACKS EAST | UR 4637N 14250E | IV |
| KORSAKOV ARMY BARRACKS NORTHEAST | UR 4638N 14247E | IV |
| KORSAKOV ARMY BARRACKS SOLOVYEVKA | UR 4643N 14245E | IV |
| KOZELSK ARMY BARRACKS | UR 5402N 03546E | IV |
| KRASNODAR ARMY BARRACKS SOUTH | UR 4500N 03857E | II |
| KRASNODAR ARMY BARRACKS NORTH | UR 4502N 03857E | II |
| KRASNODAR ARMY BARRACKS TELMYANA UL | UR 4500N 03857E | II |
| KUYBYSHEV ARMY BARRACKS UL KOROSTEL | UR 5311N 05007E | III |
| KUYBYSHEV MILITARY BARRACKS AREA | UR 5312N 05010E | III |
| KZYL ORDA ARMY BARRACKS | UR 4450N 06530E | IV |
| LIEPAJA ARMY DEPOT KARA OSTA | UR 5633N 02103E | III |
| LIEPAJA ARMY BARRACKS NORTH | UR 5633N 02101E | IV |
| LIEPAJA BARRACKS NORTH | UR 5634N 02101E | IV |
| MATROSOVO ARMY BARRACKS HOE | UR 4932N 14251E | II |
| POBEDINO ARMY BARRACKS | UR 4950N 14248E | V |
| PROVIDENIYA ARMY BARRACKS URELK | UR 6424N 17311W | V |
| ROSTOV ARMY BARRACKS NORTHWEST | UR 4714N 03941E | V |
| ROSTOV ARMY BARRACKS CENTRAL | UR 4713N 03943E | II |

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| SARATOV ARMY BARRACKS CENTRAL | UR 5132N 04600EIII |
| SARATOV ARMY BARRACKS NORTHWEST | UR 5133N 04559EIII |
| SMIRNYKH BARRACKS AREA | UR 4945N 14250E II |
| KUYBYSHEV HQ VOLGA MILITARY DISTRICT | UR 5311N 05005E IV |
| ROSTOV HQ NORTH CAUCASUS MIL DISTRICT | UR 4713N 03942E IV |
| BRYANSK ORDNANCE DEPOT BRYANSK II | UR 5313N 03423E IV |
| BRYANSK ORDNANCE DEPOT NORTH | UR 5315N 03421E IV |
| OMSK ORDNANCE AND AMMUNITION DEPOT | UR 5501N 07324E V |
| PERM ORDNANCE DEPOT | UR 5759N 05615E II |
| TASHKENT ORDNANCE DEP AND BKS URTA-AUL | UR 4111N 06908E V |
| TENG-CHUNG MILITARY COMPLEX | CH 2502N 09829E IV |
| LU-HSI ARMY BARRACKS SOUTH | CH 2424N 09833E IV |
| MAN-NAI ARMY BARRACKS MENG-HUN | CH 2150N 10023E IV |
| DRUZHBA ARMY BARRACKS | UR 4513N 08230EIII |
| TSO-NA AREA CAMP AND STORAGE DUMP | TI 2800N 09201E V |
| TASHKENT ARMY SUPPLY DEPOT SKLAD 28 | UR 4116N 06918E IV |
| KOMSOMOLSK SUPPLY DEPOT CENTRAL 1 | UR 5034N 13700E IV |
| KOMSOMOLSK SUPPLY DEPOT SOUTHWEST | UR 5032N 13656E IV |
| KOMSOMOLSK SUPPLY DEPOT CENTRAL 2 | UR 5034N 13701E IV |
| ULAN-UDE ARMY SUP DEPOT UDA RIVER SOUTH | UR 5149N 10741E IV |
| ULAN-UDE ARMY SUPPLY DEPOT | UR 5149N 10736E IV |
| BEREGOVO TRAINING AREA | UR 4813N 02242E II |
| KYAKHTA ARMY BARRACKS | UR 5021N 10627E IV |
| OMSK PROBABLE MILITARY AREA EAST | UR 5455N 07327E V |
| OMSK MILITARY BARRACKS WEST | UR 5455N 07319E V |
| OMSK MANEUVER AREA SOUTH | UR 5451N 07320E IV |
| ZABAYKALSK MILITARY INSTALLATION | UR 4938N 11719E II |
| PERM MILITARY TRAINING AREA | UR 5801N 05623E II |
| SLUPSK ARMY BARRACKS 3 | UR 5427N 01703EIII |
| GORKIY MOTOR VEHICLE PLANT MOLOTOV 1 | UR 5615N 04354E II |
| OMSK RR RPR AND TANK PLT VOROSHILOV 174 | UR 5456N 07324E V |
| HSIA-MEN COMPLEX | CH 2427N 11805EIII |
| CHI-CHI-HA-ERH COMPLEX | CH 4721N 12358EIII |
| HA-ERH-PIN COMPLEX | CH 4545N 12639E II |
| FU-LA-ERH-CHI COMPLEX | CH 4712N 12339EIII |
| SHANG-HAI COMPLEX | CH 3114N 12128EIII |
| TIEN-CHING COMPLEX | CH 3908N 11712EIII |
| TENG-HSIEN COMPLEX | CH 3506N 11709EIII |
| SUNCHON COMPLEX | KN 3925N 12556E IV |
| KAECHON COMPLEX | KN 3941N 12553EIII |
| PADANG COMPLEX | ID 0058S 10022E II |
| TELUKBETUNG COMPLEX | ID 0528S 10517EIII |
| CHONGJIN AREA MILITARY INSTALL | KN 4146N 12946E IV |
| YAKUTSK COMPLEX | UR 6203N 12943E II |
| ONGJIN COMPLEX | KN 3756N 12522EIII |
| AKETI RAILROAD TERMINUS AND YARD | CX 0243N 02350E IV |

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BORISOGLEBSK SENSITIVE OPERATIONS COMPLEXUR 5125N 04157EIII
BEREZOVKA/KRASNOARMEYSKOYE SEN OP COMPLX UR 5111N 04600E IV
GOLOVCHINO SENSITIVE OPERATIONS COMPLEX UR 5034N 03545E V

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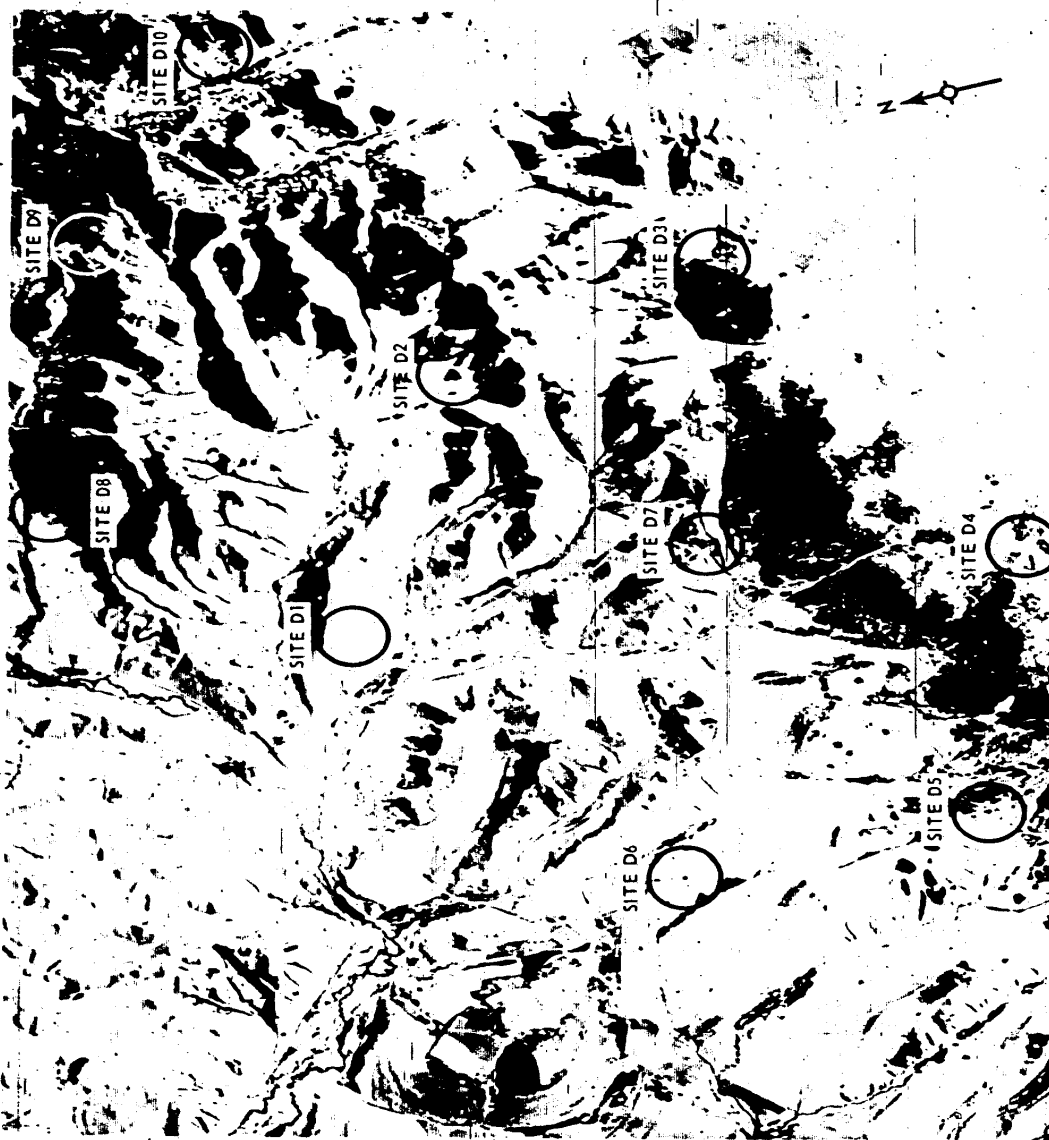
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Attachments

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MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT I



LAUNCH GROUP D, OLOVYANNAYA ICBM COMPLEX, USSR

NPIC J-7416 12/651

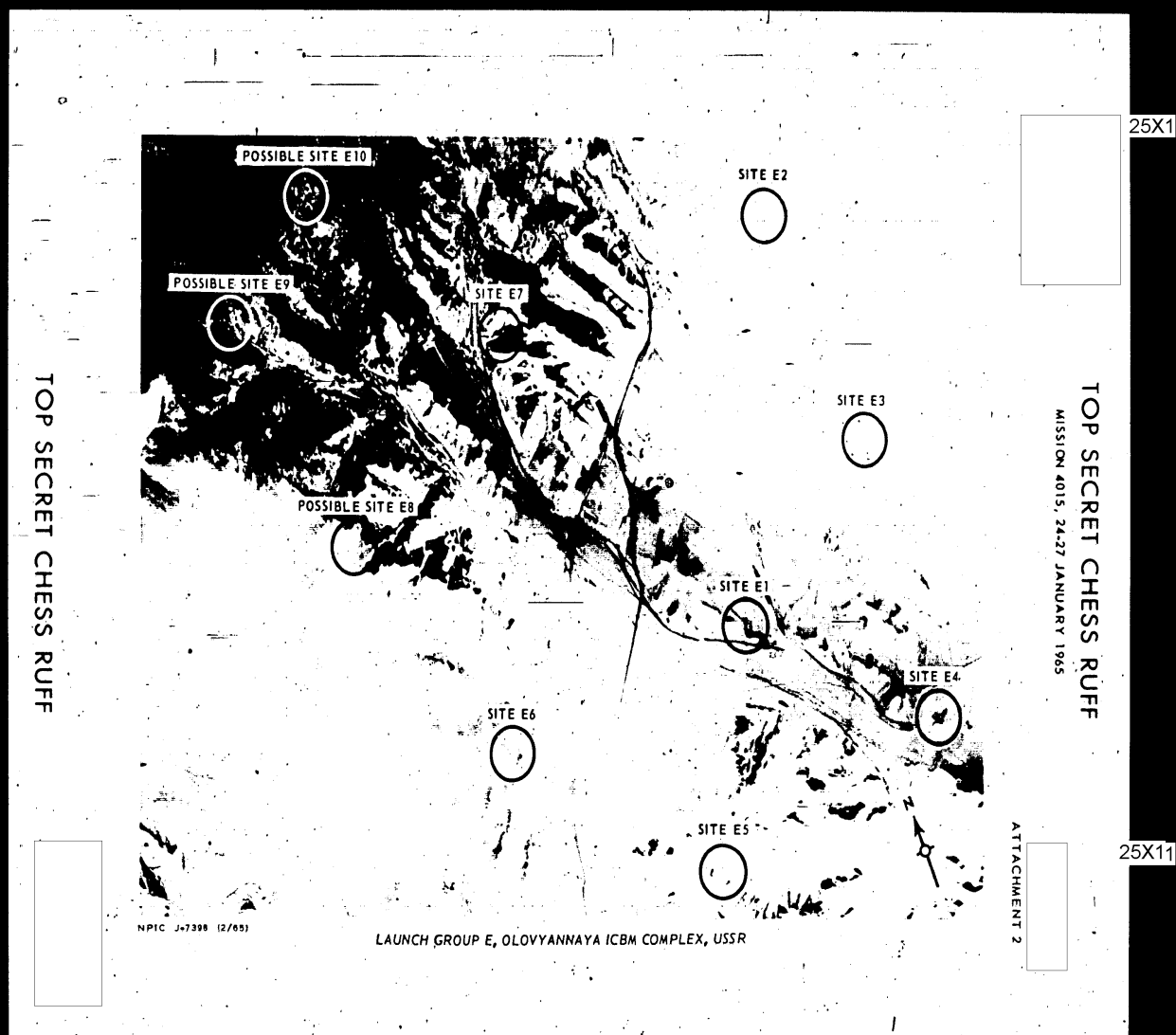
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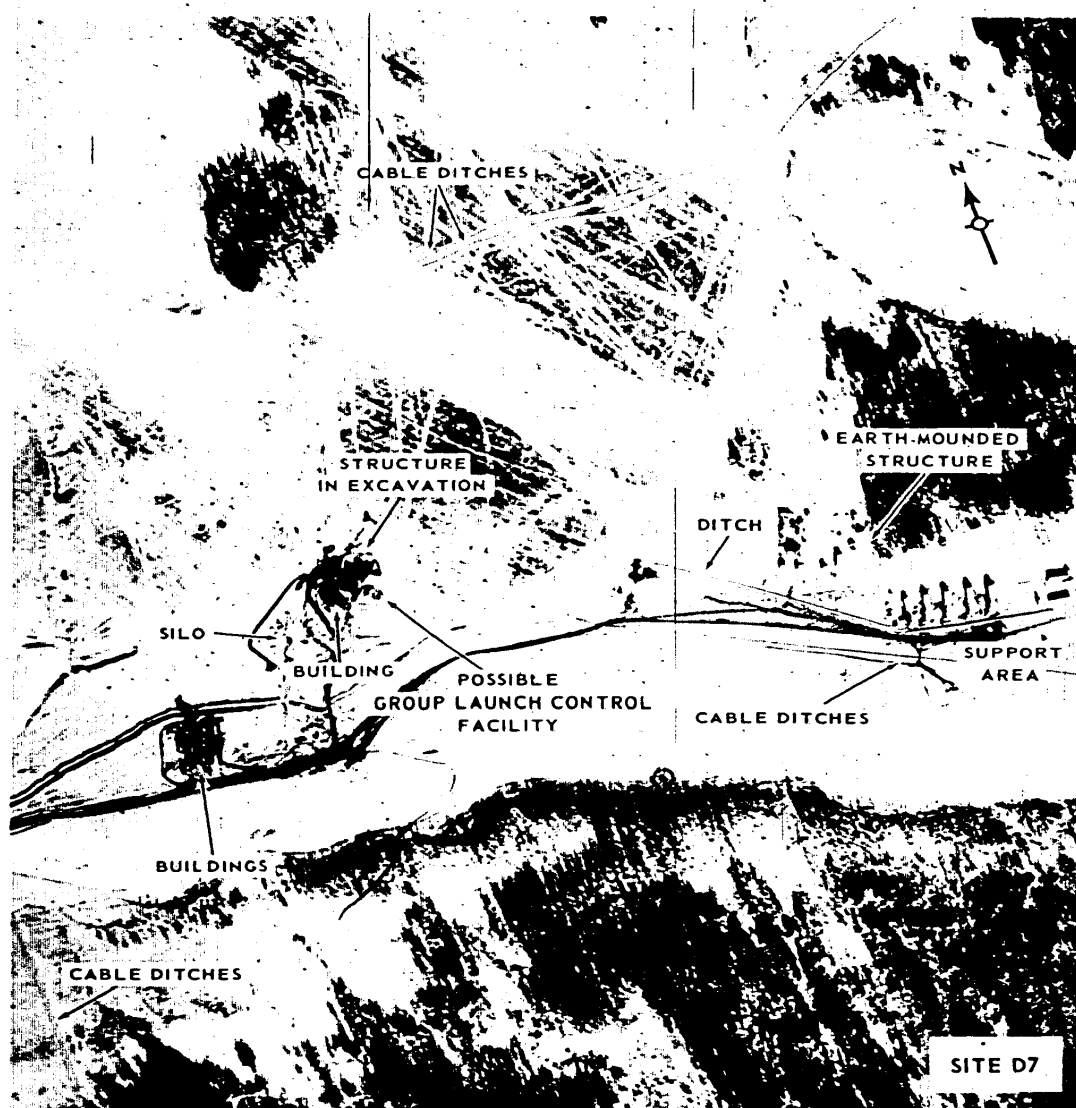
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ATTACHMENT 3



LAUNCH GROUP D, OLOVYANNAYA ICBM COMPLEX, USSR

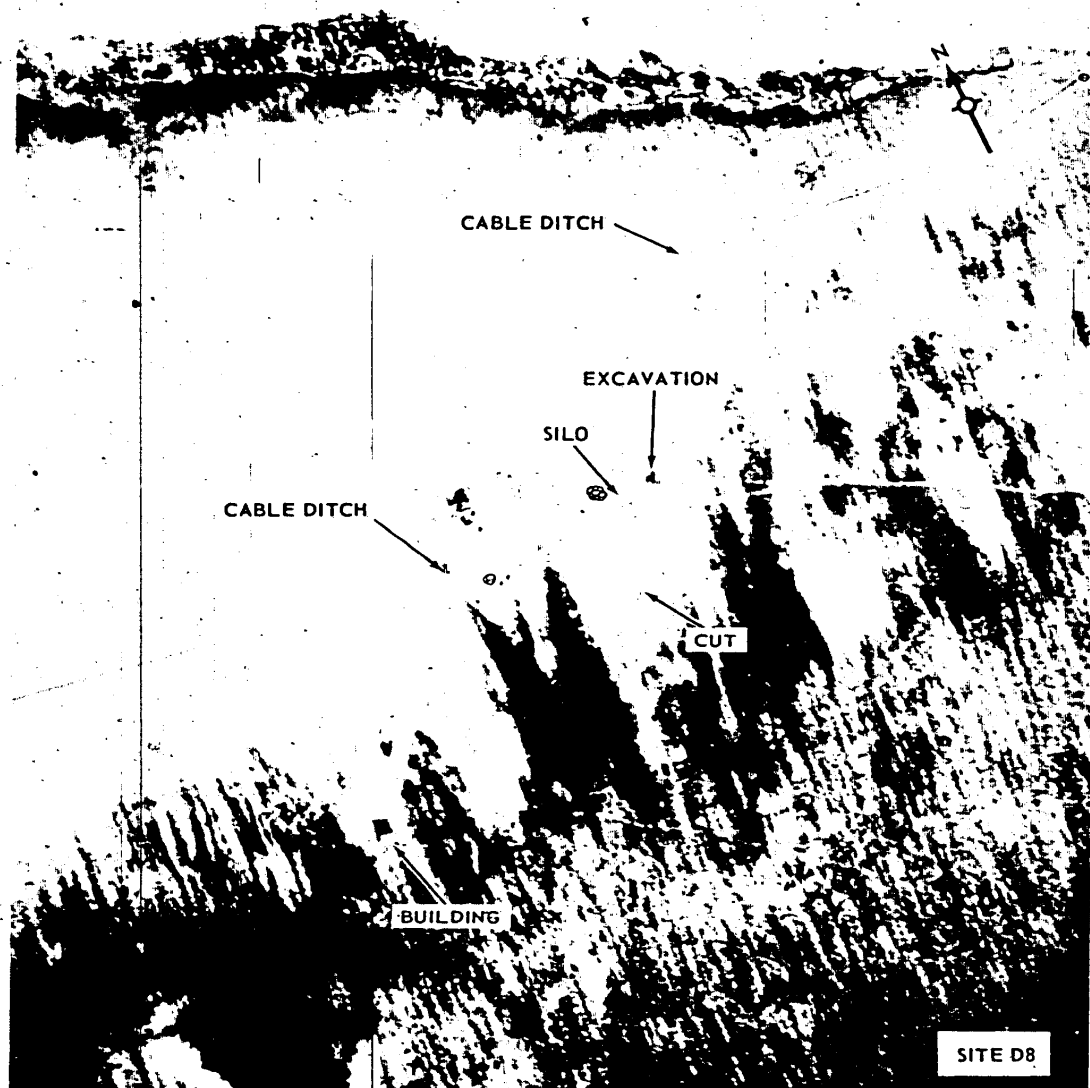
NPIC J-7399 (2/65)

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ATTACHMENT 4



LAUNCH GROUP D, OLOVYANNAYA (CBM COMPLEX, USSR)

NPIC J-7400 (2/65)

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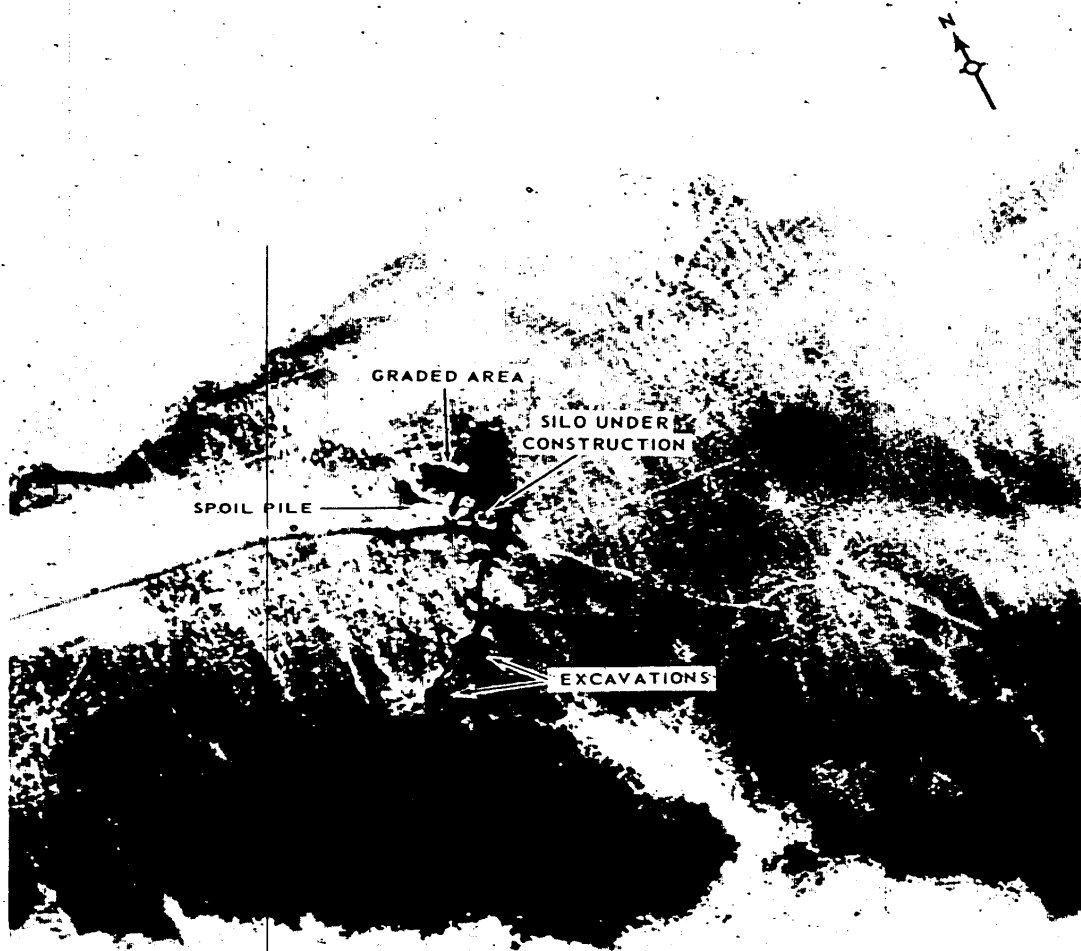
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ATTACHMENT 5

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SITE E7

LAUNCH GROUP E, OLOVYANNAYA ICBM COMPLEX, USSR

NPIC J-7410 (2/65)

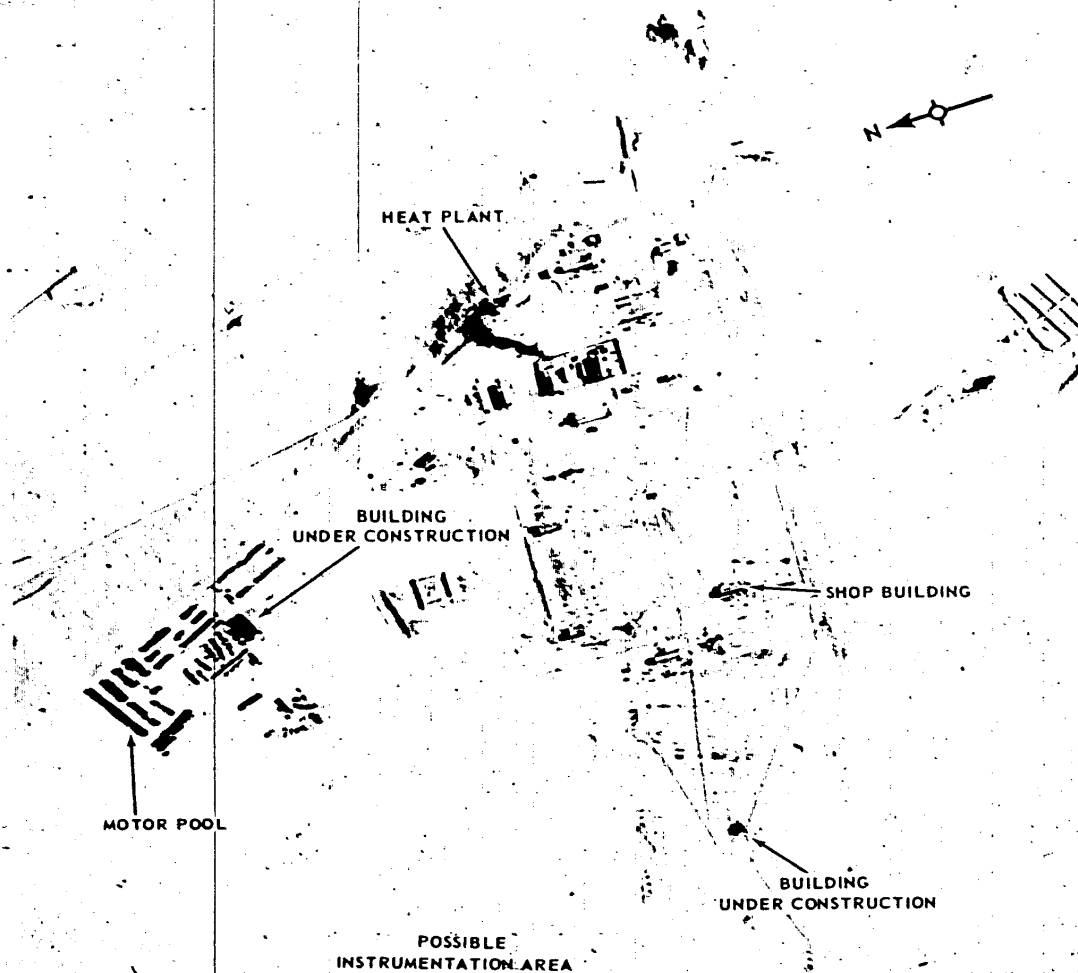
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ATTACHMENT 6*



OPERATIONAL SUPPORT AREA, EMBA MISSILE-ASSOCIATED FACILITY, USSR

NPIC J-7411 (2/65)

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ATTACHMENT 7



HARDSTANDS

SUPPORT AREAS

TOKEN-TYPE RADAR

PADS

CONTROL BUNKER

LAUNCH AREA

LAUNCH AREA, EMBA MISSILE-ASSOCIATED FACILITY, USSR

NPIC J-7412 (2/85)

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ATTACHMENT 8



SSM STORAGE SITE, OMSK, USSR

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February 1965

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

ADDENDUM TO NPIC

Further analysis of Mission 4015, Jan 65, provides the following readout for Balaklava Submarine Base [] which was considered cloud covered and not included in the OAK reports for this mission:

[] Balaklava Submarine Base

UR 4430N 03336E

No submarines, major naval vessels, missiles, missile handling equipment, missile-associated facilities, or nuclear storage activity observed in cloud-free areas.

The presence of a probable submarine pen reported on [] Sep 64, can neither be confirmed nor negated on this poor quality, non-stereo photography.

Vessels -- 1 merchant ship and numerous minor unidentified surface vessels.

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March 1965

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ADDENDUM TO NPIC

Further analysis of Mission 4015, Jan 65, reveals the following COMOR targets which were not included in the OAK reports for this mission:

USSURIYSK SAM SITE B08-3 UR 4353N 13216E

D-configuration SAM site with 4 canvas-covered launch positions. Several canvas-covered unidentified objects are located in the central guidance area. There are several other unidentified objects inside the security fence. No SAM support present.

PYONGYANG AIRFIELD EAST KN 3901N 12550E

(This airfield was erroneously reported in Part III of the OAK for Mission 4015, under COMOR target which was not covered.) No apparent change since Jun 1962. Runway cleared of snow.

Aircraft - 19 small fighter-type aircraft and 1 possible aircraft.

BEREGOVO ARMY BARRACKS AL-1 UR 4811N 02237E

South central section of Beregovo on both sides of the main rail line. Installation is separated into two walled areas.

Eastern area contains 10 probable vehicle/equipment storage buildings, 2 probable vehicle/equipment maintenance buildings, 7 storage buildings and at least 7 support buildings.

Western area contains 2 C-shaped multistory administrative/barracks buildings, 7 support/storage buildings, an athletic field, a small-arms firing range, and

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[REDACTED]

an obstacle course.

Activity -- 5 probable tanks and at least 54 unidentified pieces of equipment/vehicles are parked in the area. Moderate tracking observed.

[REDACTED]

[REDACTED] TSO-NA COMPLEX TI 2759N 09159E

Small residential town served by single-lane natural surface road. No new industrial areas, roads, bridges, military installations or vehicle concentrations observed.

[REDACTED]

[REDACTED] YEN-TUN AIRFIELD CH 4230N 09410E

No apparent change since [REDACTED] Oct 64, except that at least 7 unidentified dark objects are visible on runways in north section. Aircraft -- none observed.

[REDACTED]

[REDACTED] LA-TZU COMPLEX TI 2910N 08745E

Complex, approximately 0.5 sq mi in area, does not appear to have any military installations or activity associated with it. No new industrial areas, roads, bridges, or vehicle concentrations observed.

[REDACTED]

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